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1.318 go.uber.org/atomi 1.9.0

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1.319 httpcomponents-core 4.4.16

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1.320 x-time-rate 0.3.0

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1.321 gotenv 1.4.2

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1.322 go-isatty 0.0.17

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1.323 wheel 0.37.1-2ubuntu0.22.04.1

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1.324 bcel 6.7.0

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1.325 jackson 2.14.2

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1.327 opentracing-go 1.1.0

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1.328 error_prone_annotations 2.18.0

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1.329 commons-fileupload 1.5

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1.330 cyrus-sasl 2.1.27+dfsg2-3ubuntu1.2

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1.331 snake-yaml 2.0

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1.332 pcre 2:8.39-13ubuntu0.22.04.1

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1.333 attr 1:2.5.1-1build1

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1.334 gmp 2:6.2.1+dfsg-3ubuntu1

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1.335 libsemanage-common 3.3-1build2

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1.336 libpkit 0.24.0-6build1

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1.337 audit 1:3.0.7-1build1

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1.338 diffutils 1:3.8-0ubuntu2

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1.339 prometheus-common 0.42.0

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1.341 jackson-annotations 2.14.2

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1.342 spring-context 5.3.26

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1.343 jersey-hk2 2.39.1

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1.344 jersey-client 2.39.1

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1.347 sudo 1.9.9-1ubuntu2.4

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1.348 jackson-dataformat-yaml 2.14.2

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1.349 jackson-datatype-jsr310 2.14.2

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1.350 simpleclient-httpserver 0.16.0

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1.352 slf4j-reload4j 1.7.36

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1.353 jackson-databind 2.15.0

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1.354 joda-time 2.12.5

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1.355 libnsl 2.0.1

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1.356 jersey-container-servlet 2.39.1

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1.357 cast 1.5.1

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1.367 jersey-container-servlet-core 2.39.1

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1.368 jersey-common 2.39.1

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1.369 scala-collection-compat_2.13 2.10.0

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1.371 go-toml 2.0.8

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1.383 guava 32.1.1-jre

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1.384 unsafe-assume-no-moving-gc 0.0.0-20230525183740-e7c30c78aeb2

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1.385 inet.af-netaddr 0.0.0-20230525184311-b8eac61e914a

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1.386 treeprint 1.2.0

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1.387 rocksdbjni 7.9.2

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1.391 python-stdlib-extensions 3.10.8-1~22.04

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1.393 go-sysconf 0.3.12

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1.397 apr-util 1.6.1-5ubuntu4.22.04.2

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1.399 jackson-jaxrs 2.13.5

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1.400 jackson-jaxrs-base 2.13.5

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1.401 jackson-xc 2.13.5

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1.402 j2objc-annotations 2.8

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1.404 libwebp 1.2.2-2ubuntu0.22.04.2

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1.406 go-toml 2.1.0

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1.407 gotenv 1.6.0

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1.408 go-restful 3.11.0

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1.412 jackson-datatype-jdk8 2.13.5

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1.413 jmx_prometheus_javaagent_common 0.18.0

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1.502 image-spec 1.1.0

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1.504 zap 1.27.0

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1.506 jline 3.25.1

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1.602 logback-access 1.2.13

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1.603 jansi - java library for generating and interpreting ansi escape sequences. 1.5.0

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1.604 platformdirs 4.2.2

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1.5 metrics 2.2.0

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1.9 httpcomponents-core 4.3.2

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1.11 hk2-utils 2.5.0

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1.14 hk2-api 2.5.0

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1.20 javax-ws-rs-api 2.1.1

1.21 bzip2 1.0.8

1.22 argparse 0.7.0

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Found in path(s):
* /argparse-0-7-0-zip/argparse-0.7.0/setup.py
* /argparse-0-7-0-zip/argparse-0.7.0/argparse.py
* /argparse-0-7-0-zip/argparse-0.7.0/test_argparse.py
BSD-style without advertising clause
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Metadata-Version: 1.0
Name: argparse
Version: 0.7.0
Summary: An optparse-inspired command-line parsing library
Home-page: http://argparse.python-hosting.com/
Author: Steven Bethard
Author-email: steven.bethard@gmail.com
License: BSD
Description: Argparse takes the best of the optparse command-line parsing module
and brings it new life. Argparse adds positional as well as
optional arguments, the ability to create parsers for sub-commands,
more informative help and usage messages, and much more. At the
same time, it retains the ease and flexibility of use that made
optparse so popular.
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python
Classifier:
Topic :: Software Development

Found in path(s):
* /argparse-0-7-0-zip/argparse-0.7.0/PKG-INFO

1.23 zjsonpatch 0.3.0

1.24 animal-sniffer-annotation 1.14

1.25 commons-lang3 3.7

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1.32 logback-jackson 0.1.5

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1.35 ghodss-yaml 1.0.0

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1.36 bean-validation-api 2.0.1.Final

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1.37 xpp 1.1.3.3

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1.38 disruptor 3.4.2

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* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/Cursored.java
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 /disruptor-3-4-2-sources-jar/com/lmax/disruptor/DataProvider.java
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* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventFactory.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceReportingEventHandler.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/SleepingWaitStrategy.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/ExceptionHandler.java
*
/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventProcessor.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceBarrier.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/BusySpinWaitStrategy.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorTwoArg.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/IgnoreExceptionHandler.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/NoOpEventProcessor.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/BatchEventProcessor.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ExceptionHandlerSetting.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkerPool.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/DaemonThreadFactory.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/EventProcessorInfo.java
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* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/YieldingWaitStrategy.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ConsumerRepository.java
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* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkProcessor.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/Disruptor.java
* /disruptor-3-4-2-sources-jar/com/lmax/disruptor/FatalExceptionHandler.java

1.39 libsmi 0.4.8

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---

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

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
            traditional one-character options, and GNU'ish
            --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
  shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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1.40 commons-beanutils 1.9.4

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1.41 slf4j 1.7.30

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1.42 flowrate 0.0.0-20140419014527-cca7078d478f

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1.43 jsp 2.3

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1.47 go-grpc-prometheus 1.2.0

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1.48 quartz 2.3.2

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1.49 c3p0 0.9.5.4

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1.55 pb 1.0.28

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1.56 go-runewidth 0.0.9

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

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

1.66 commons-lang3 3.1

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1.67 httpcomponents-client 4.5.13

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Found in path(s):
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/MarkerFactory.java
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* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticMDCBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/LoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MDCAdapter.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NamedLoggerBase.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/SubstituteLogger.java

* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/MDC.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/FormattingTuple.java
*
/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/LoggerFactoryBinder.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPLoggerFactory.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/Util.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMarker.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/BasicMDCAdapter.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/IMarkerFactory.java
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* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/spi/LocationAwareLogger.java
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* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPMDCAdapter.java
*
/slf4j-api-1-7-26-sources-2-jar/org/slf4j/helpers/NOPLogger.java
* /slf4j-api-1-7-26-sources-2-jar/org/slf4j/ILoggerFactory.java

1.71 jboss-logging 3.4.1.Final

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1.77 okhttp 3.12.12

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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/StreamResetException.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicTrustRootIndex.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RealInterceptorChain.java

1.78 expect 5.45.4-2build1

1.78.1 Available under license :

Expect

Written by: Don Libes, libes at nist.gov, NIST

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1.79 asm 5.0.3

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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
```

```
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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```
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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/package.html
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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this

```
    * constructor</i>. Instead, they must use the {@link #Textifier(int)}
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    *
    * @throws IllegalStateException
    *         If a subclass calls this constructor.
     */
```

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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/InsnNode.java
*
 /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/MethodWriter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/signature/SignatureVisitor.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Handle.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/CheckClassAdapter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Subroutine.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/CheckMethodAdapter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/TraceMethodVisitor.java
*
/asm-5-0-3-sources-4-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Edge.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Handler.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/util/ASMifier.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/Label.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/signature/SignatureWriter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/MethodVisitor.java

* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/FieldWriter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/StaticInitMerger.java
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*
 /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/FieldNode.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/InsnList.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/tree/IntInsnNode.java
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*/

```
/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *         If a subclass calls this constructor.
    */
```

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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
```

```
   *
   * @param mv
   *          the
 method visitor to which this adapter delegates calls.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/SAXAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/Processor.java
*
 /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /asm-5-0-3-sources-4-jar/org/objectweb/asm/xml/ASMContentHandler.java
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*/

```
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /asm-5-0-3-sources-4-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

1.80 httpcomponents-core 4.4.13

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1.81 commons-lang3 2.6

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1.82 commons-logging 1.2

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1.83 commons-cli 1.4

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1.84 jakarta-annotation-api 1.3.4

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1.86 javassist 3.22.0-CR2

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```

Found in path(s):

```
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InnerClassesAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Subroutine.java
*
 /javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Cflow.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/FactoryHelper.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/Transformer.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Reflection.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Instanceof.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ByteStream.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SyntaxError.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotReflectException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformCall.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewWrappedMethod.java
*
```

/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFilePrinter.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/AssignExpr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtArray.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtPrimitiveType.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DeprecatedAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberResolver.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/BasicBlock.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/CodeAnalyzer.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/JvstCodeGen.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMap.java
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LocalVariableAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CodeGen.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObject.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Util.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/DoubleConst.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Dump.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/ControlFlow.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtMethod.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LineNumberAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/CodeIterator.java
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Stmnt.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypedBlock.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CodeConverter.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNewClass.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtMember.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ByteArray.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/framedump.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Cast.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassClassPath.java
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/expr/MethodCall.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/CannotCompileException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformReadField.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeData.java

* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewClass.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Callback.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/Modifier.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Inner.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/ObjectNotFoundException.java
*
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtClass.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/SoftValueHashMap.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SerializedProxy.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Email.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

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

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1.103 hk2-utils 2.6.1

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1.106 jakarta-inject 2.6.1

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jar/net/logstash/logback/composite/accessevent/AccessEventCompositeJsonFormatter.java
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*/
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* /logstash-logback-encoder-6-6-sources-jar/net/logstash/logback/marker/LogstashBasicMarker.java

1.111 lz4 1.9.3

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1.118 tacacs-plus 2.6

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1.123 commons-lang3 3.12.0

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1.124 jopt-simple 5.0.4

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* /jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java

* /jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
*
/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/UnavailableOptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/UnrecognizedOptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ParserRules.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/SimpleOptionNameMap.java
*
/jopt-simple-5-0-4-sources-8-jar/joptsimple/MultipleArgumentsForOptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Row.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/NonOptionArgumentSpec.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecBuilder.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/MissingRequiredOptionsException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/util/KeyValuePair.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/AbbreviationMap.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Rows.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Columns.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/IllegalOptionSpecificationException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Strings.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionMissingRequiredArgumentException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSet.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentAcceptingOptionSpec.java
*
/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/InetAddressConverter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/BuiltinHelpFormatter.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecTokenizer.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ReflectionException.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/OptionNameMap.java
* /jopt-simple-5-0-4-sources-8-jar/joptsimple/HelpFormatter.java

1.125 commons-io 2.11.0

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1.126 python-requests 2.26.0

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---
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Written by: Philip Hazel
Email local part: ph10
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[Misc
C library code]

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 */
```

[zlib]

```
/* zlib.h -- interface of
 the 'zlib' general purpose compression library
 version 1.2.3, July 18th, 2005

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

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

[dialyzer]

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[hipe]

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[edoc, syntax_tools]

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[eldap]

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1.130 servlet-api 4.0.1

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1.132 netbase 6.3

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1.134 urllib3 1.26.7

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1.138 zap 1.17.0

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1.139 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.140 prometheus-common 0.26.0

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1.141 spf13-pflag 1.0.5

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1.142 cidranger 1.0.2

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1.144 docker-go-metrics 0.0.1

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1.145 flag 1.7.4-pre

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1.146 go-errors-errors 1.0.2

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1.147 trylock 0.0.0-20191027065348-ff7e133a5c54

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1.148 clockwork 0.2.2

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Clockwork - a clock process to replace cron
==========

Cron is non-ideal for running scheduled application tasks, especially in an app
deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')


every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

The clock process only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as [Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job), [Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/), [RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or [Resque](http://github.com/blog/542-introducing-resque). This design allows a simple clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application enviroment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

```
require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file
---

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this
exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```
handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that

rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
  every(5.minutes,
 'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
  every(1.day, 'check.leap.year') do
    Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
  end
```

In production

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scehduler)

Design
 assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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* /clockwork-0-2-2-1-gem/data-tar-gz/README.md

1.149 hcl 1.0.0

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1.152 go-errors-errors 1.1.1

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1.153 go-farm 0.0.0-20200201041132-a6ae2369ad13

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1.154 grpc-websocket-proxy 0.0.0-20201229170055-e5319fda7802

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1.155 xerces-j 2.7.1

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configuration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLRefreshElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLPrevElementImpl.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFormElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLPElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLObjectElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLUListElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDListElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLParagraphElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLIFrameElementImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLOptionElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLInputElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMapElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLStrongElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLUElementImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLOneventElementImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ValidatedInfo.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLLocator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/SchemaDVFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
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*/
/**
  * DOM Level 3 LS CR - Experimental.
   * Create a new <code>LSParser</code>. The newly constructed parser may
   * then be configured by means of its <code>DOMConfiguration</code>
   * object, and used to parse documents by means of its <code>parse</code>
   * method.
   * @param mode The
 <code>mode</code> argument is either
   *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
   *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
   *   <code>LSParser</code> that is created will operate in synchronous
   *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
   *   <code>LSParser</code> that is created will operate in asynchronous
   *   mode.

```
   * @param schemaType  An absolute URI representing the type of the schema
   *   language used during the load of a <code>Document</code> using the
   *   newly created <code>LSParser</code>. Note that no lexical checking
   *   is done on the absolute URI. In order to create a
   *   <code>LSParser</code> for any kind of schema types (i.e. the
   *   LSParser will be free to use any schema found), use the value
   *   <code>null</code>.
   * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
   *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
   *   applications must use the value
   *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
   *   are outside the scope of the W3C and therefore should recommend an
   *   absolute URI in order to use this method.
   * @return  The newly created <code>LSParser</code> object. This
   *   <code>LSParser</code> is either synchronous or asynchronous
   *   depending on the value of the <code>mode</code> argument.
   * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
   *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
   *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
   *   error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
   *   the initial value of the <code>"error-handler"</code> configuration
   *   parameter on the new created <code>LSParser</code> contains a
   *   reference to the default error handler.
   * @exception DOMException
   *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
   *   not supported.
  */
```

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/EventImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11EntityScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Encodings.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ElementState.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNode.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializer.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CommentImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Method.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/TextSerializer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/IndentPrinter.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLStringBuffer.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XHTMLSerializer.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XNIException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMOutputImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/StringDV.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeValueException.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/EntityState.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSGrammarBucket.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java
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*/
/**
    * used to check the 3 constraints against each complex type
    * (should be each model group):
    * Unique Particle Attribution, Particle Derivation (Restriction),
    * Element Declrations Consistent.
    */
```

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLVersionDetector.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSException.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/StringList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ShortList.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SecurityManager.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItemList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSLoader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModel.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/LSInputList.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTypeDefinition.java
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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate \"Unique Particle

Attribution\". During validation against this schema, ambiguity would be created for those two particles.

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModelGroup.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSParticle.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSElementDeclaration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSWildcard.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSIDCDefinition.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /xercesimpl-2-8-0-sources-jar/org/apache/html/dom/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ObjectFactory.java
*

/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMConfigurationImpl.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializerImpl.java

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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMUtil.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/Grammar.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLString.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/Augmentations.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/QName.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPConstants.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DefaultErrorHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponent.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXLocatorWrapper.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerPart.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXInputSource.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMInputSource.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/LocatorProxy.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java

* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/DatatypeFactoryImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerProxy.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/XMLGregorianCalendarImpl.java
*
 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/Util.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ShortHandPointer.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SymbolTable.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttributeMap.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/XPath.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTrElement.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPostfieldElement.java
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 /xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLErrorCode.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSFloat.java
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* /xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.163 json-iterator-go 1.1.12

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1.166 error_prone_annotations 2.10.0

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* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/InlineMe.java
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* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Immutable.java
* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
*
 /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Var.java
* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java

* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/ForOverride.java
* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
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* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/DoNotCall.java
*
/error-prone-annotations-2-10-0-sources-
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* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/FormatMethod.java
* /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CompatibleWith.java
*
 /error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
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1.167 log4j-api 2.17.1

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1.168 log4j-to-slf4j 2.17.1

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1.173 stateless4j 2.5.0

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1.174 gopsutil 3.21.11+incompatible

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1.176 log4j-1.2-api 2.17.1

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1.186 bouncycastle-fips 1.0.2.3

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1.187 metrics 4.1.12.1

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1.189 pytz 2022.1

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1.190 expat 2.4.7

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1.191 zap 1.21.0

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1.192 netlink 1.2.1

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1.193 pkg-sftp 1.13.2

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1.194 python-babel 2.8.0+dfsg.1-7

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1.199 lumberjack 2.0.0

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1.200 cmux 0.1.5

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

1.201 gorilla-websocket 1.4.2

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* /adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/root.go
* /adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/login.go
* /adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/cmd/version.go
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```
--
-- Accedian Enterprise Specific MIB: Structure of Management Information
--
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--


ACCEDIAN-SMI DEFINITIONS ::= BEGIN

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

accedianMIB MODULE-IDENTITY
  LAST-UPDATED "200608060100Z"
  ORGANIZATION "Accedian Networks, Inc."
  CONTACT-INFO
         "Accedian Technical Assistance Center
          Accedian Networks, Inc.
          2351 Alfred-Nobel blvd., Suite N-410
          Saint-Laurent, Quebec Canada H4S 2A9
          E-mail: support@accedian.com"
  DESCRIPTION
         "The Structure of Management Information for Accedian Networks."

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

  ::= { enterprises 22420 }
```

```
--
-- Accedian MIB tree structure
--

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

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

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

  id OBJECT IDENTIFIER ::= {acdTraps 1}

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

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

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

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

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

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

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

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

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

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

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

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

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

alertState OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
      "The current alert state"
   ::= {acdTraps 14}

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


metaDataKey1 OBJECT-TYPE
   SYNTAX OCTET STRING (SIZE (0..255))
   MAX-ACCESS  read-write
   STATUS current
   DESCRIPTION
```

```
        "Alert Metadata Key Name 1"
    ::= {acdTraps 16}

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

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

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

  metaDataKey5 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
    DESCRIPTION
        "Alert Metadata Key Name 5"
    ::= {acdTraps 20}

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

  metaDataVal2 OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (0..255))
    MAX-ACCESS  read-write
    STATUS current
```

```
      DESCRIPTION
         "Alert Metadata Value 2"
      ::= {acdTraps 22}

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

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

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

acdTrapsConformance OBJECT IDENTIFIER ::= { acdTraps 500 }

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

acdTrapsNotifications OBJECT IDENTIFIER ::= { acdTraps 50 }

acdTrapSkylight NOTIFICATION-TYPE
   OBJECTS  {  objectId,
               skylightObjectName,
               objectType,
               direction,
               policy,
               metric,
               alertType,
               source,
               processedTime,
               startTime,
               timestamp,
```

```
            policyName,
            alertState,
            thresholdValue,
            metaDataKey1,
            metaDataKey2,
            metaDataKey3,
            metaDataKey4,
            metaDataKey5,
            metaDataVal1,
            metaDataVal2,
            metaDataVal3,
            metaDataVal4,
            metaDataVal5 }
  STATUS      current
  DESCRIPTION
     "The SNMP trap that is generated by Skylight Analytics
     when a policies threshold
 is crossed"

  ::= { acdTrapsNotifications 1 }


acdTrapsSkylightGroup OBJECT-GROUP
  OBJECTS {   objectId,
            skylightObjectName,
            objectType,
            direction,
            policy,
            metric,
            alertType,
            source,
            processedTime,
            startTime,
            timestamp,
            policyName,
            alertState,
            thresholdValue,
            metaDataKey1,
            metaDataKey2,
            metaDataKey3,
            metaDataKey4,
            metaDataKey5,
            metaDataVal1,
            metaDataVal2,
            metaDataVal3,
            metaDataVal4,
            metaDataVal5
  }
```

```
  STATUS      current
  DESCRIPTION
    "."
  ::= { acdTrapsGroups 1 }


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

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

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--   NOTE: Support for MIBs under the this OID subtree is temporary and
--         changes to objects may occur without notice."

acdExperiment  OBJECT IDENTIFIER ::=
 { accedianMIB 4 }

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



END
```

Found in path(s):
* /adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/mibs/ACCEDIAN-SMI.mib
No license file was found, but licenses were detected in source scan.

// Special handling for the Flex's semi-proprietary 'compressed' overloading

Found in path(s):
* /adh-roadrunner-0-580-0-tar-gz/adh-roadrunner-0.580.0/datasources/openMetricsParsing.go

1.203 libnsl 2.31

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1.205 reflections 0.10.2

1.205.1 Available under license :

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Found in path(s):
* /reflections-0-10-2-sources-1-jar/META-INF/maven/org.reflections/reflections/pom.xml

1.206 tdb 1.46.5

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

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

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

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.

```
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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This is the Debian GNU/Linux prepackaged version of the translation
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

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

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Theodore Ts'o
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1.207 go-wordwrap 1.0.1

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hostname -- set the host name or show the host/domain name

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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1.215 libffi 3.4.2-4

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1.219 findutils 4.8.0-1ubuntu3

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

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Any executables containing that work also fall under Section 6,
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

d) If a facility in the modified Library refers to a function or a

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute

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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
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Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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1.223 iconv 2.35

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

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

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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The modified work must itself be a software library.

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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creates an executable that is a derivative of the Library (because
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contains portions of the Library), rather than a ``work that uses the
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@subheading END OF TERMS AND CONDITIONS

@page
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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.225 sed 4.8-1ubuntu2

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* Copyright (C) 2015 Andreas Henriksson <andreas@fatal.se>
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* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/it/run-parts.8
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/* run-parts: run a bunch of scripts in a directory
*
* Debian run-parts program
* Copyright (C) 1996 Jeff Noxon <jeff@router.patch.net>,
* Copyright (C) 1996-1999 Guy Maor <maor@debian.org>
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*
* Based on run-parts.pl version 0.2, Copyright (C) 1994 Ian Jackson.
*
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Found in path(s):

* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/remove-shell.8
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/which.1
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/add-shell.8
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/savelog.8
* /debianutils-5-5-orig-tar-xz/debianutils-5.5/po4a/de/installkernel.8

1.229 acl 2.3.1-1

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1.234 cdebconf 0.261ubuntu1

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1.236 mawk 1.3.4.20200120-3

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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
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src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
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1.241 liblocale-gettext-perl 1.07-4build3

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Locale::gettext
version 1.07

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

work just like the C versions.

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

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Changes

1.07 Fix test failures caused by $LANGUAGE being set

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

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

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

1.03 Fix error in README file

1.02 Include a License

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

 Small "lint" fix from schwern@starmedia.net

1.00 Initial version

TODO

A TIEHASH interface

Here's a quick tutorial.

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

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

INTERNATIONALIZING YOUR PROGRAM

Step 1

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

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

print "Welcome to my program\n";

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

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

Note that you probably don't want to include that newline
in the gettext() call, nor any formatting codes such as
HTML tags. The argument to gettext() is the text string
in the default language or locale. This is known as the
C locale and should probably be usually English.

Step 2

Do the apropriate initializations at the beginning of your
program:

```
#
use POSIX;     # for setlocale()
use Locale::gettext;
#
# The following statement initializes the locale handling
# code in the C library. Normally, it causes it to read
```

```
# in the environment variables that determine the current
# locale.
#
# The first parameter is the category you would
# like to initialize locale information for. You can use
# LC_ALL for this, which will set locale information for
# all categories, including LC_CTYPE, LC_TIME, LC_NUMERIC,
# etc..
#
# I recommend that you set only LC_MESSAGES (text strings)
# or LC_CTYPE (character
 sets) and LC_TIME (time
# conventions) too at most. You may find that if you set
# LC_NUMERIC or some other categories, you will start
# outputting decimal numbers with strange thousand separators
# and decimal points and they will be unparseable in
# other countries.
#
# The second parameter is the locale name. If it is an
# empty string, then this information will be fetched from
# environment variables.
#
# Note that setlocale() will cause every part of your
# program to start operating in the new, non default (C)
# locale, including C library functions. So don't be
# surprised if POSIX::ctime returns "Montag, 22. Juli 1996,
# 12:08:25 Uhr EDT" instead of "Mon Jul 22 12:08:25 EDT 1996"
# If you set LC_TIME or LC_ALL using setlocale().
#
setlocale(LC_MESSAGES, "");
#
# Decide on a unique identifier that will distinguish your
# program's text strings in the LC_MESSAGES database. This
# would usually be the name of your program
#
# By default, locale information is found in OS dependant
#
 system directories such as /usr/lib/locale, or any directory
# found in the $PATH-like environment variable $NLSPATH.
# I recommend that you do _not_ install files in /usr. If
# your program is installed in a directory tree such as
# /opt/my_package_name/{bin,man,lib,etc}, then you could
# use /opt/my_package_name/locale to store locale information
# specific to your program, or you could put in somewhere
# in /usr/local/lib.
#
# Wherever you put it, if it is not one of the default
# directories, you will need to call bindtextdomain() to
```

```
# tell the library where to find your files. The first
# parameter is your database's identifier that you chose
# above.
#
# oo interface:

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

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

# That's it for the initializations
```

Step 3

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

Step 4

TRANSLATE!

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

```
--BEGIN
domain "my_domain"

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

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

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

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

Step 5

Compile the .po file

$ msgfmt my_file.po

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

For example:

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

Step 6

Test it out

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

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

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

Found in path(s):
* /liblocale-gettext-perl-1-07-orig-1-tar-gz/Locale-gettext-1.07/README

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```
---
abstract: 'Perl bindings for POSIX i18n gettext functions'
author:
 - 'Kim Vandry <vandry.ORG>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Locale-gettext
no_index:
 directory:
   - t
   - inc
requires: {}
resources:
 license: http://dev.perl.org/licenses/
 repository: https://github.com/vandry/Perl-Locale-gettext
version: 1.07
```

Found in path(s):
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1.242 gdbm 1.23-1

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1.245 libpng 1.6.37-3build5

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```
File::FcntlLock
===============

File::FcntlLock is a module to do file locking in an object oriented
```

fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perls flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done
while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. wih the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

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

DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp,
Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module
more useful under certain
circumstances.

AUTHOR

Jens Thoms Toerring <jt@toerring.de>

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

```
=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back


=head1 SYNOPSIS

 use File::FcntlLock;

 my $fs = new File::FcntlLock;
 $fs->l_type( F_RDLCK );
 $fs->l_whence( SEEK_CUR );
 $fs->l_start( 100 );
 $fs->l_len( 123 );

 open my $fh, '<', 'file_name' or die "Can't open file: $!\n";
 $fs->lock( $fh, F_SETLK )
     or print "Locking failed: " . $fs->error . "\n";
 $fs->l_type( F_UNLCK );
 $fs->lock( $fh, F_SETLK )
     or print "Unlocking failed: " . $fs->error . "\n";


=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function.
Unfortunately, this only allows locks on whole files and is often
implemented in terms of the L<flock(2)> system function which has
some shortcomings (especially concerning locks on remotely
 mounted
file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously,
this restricts the use of the module to systems that have a L<fcntl(2)>
system call). Before a file (or parts of a file) can be locked, an
object simulating a flock structure, containing information in a
binary format to be passed to L<fcntl(2)> for locking requests, must
be created and its properties set. Afterwards, by calling the L<lock()>
method a lock can be set and removed or it can be determined if and which
process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library,
```

build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent)
binary layout of the flock structure must
have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

```
 $fs = new File::FcntlLock;
```

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on
the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

```
 $fs = new File::FcntlLock( l_type   => F_WRLCK,
                            l_whence => SEEK_SET,
                            l_start  => 0,
                            l_len    => 100 );
```

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created

the following methods allow to query and, in most cases, to also
modify its properties.

=over 4

=item C<l_type()>

If called without an argument the method returns the current setting
of the lock type, otherwise the lock type is set to the argument's value
which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock,
write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence>
property of the flock object, determining
 if the L<l_start> value
is relative to the start of the file, to the current position in
the file or to the end of the file. These values are C<SEEK_SET>,
C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>).
If called with no argument the current value of the property is
returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file
according to the mode selected by the L<l_whence> member. See also
the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to
be locked. A value of 0 is interpreted to mean a lock, starting at
C<l_start>, to the end of the file. E.g., a lock obtained with
L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set
to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are
permitted, resulting in a lock ranging from C<l_start+l_len> up to
and including C<l_start-1>. But not all systems support negative
values
 for L<l_len> and will return an error when you try to obtain
such a lock, so please read the L<fcntl(2)> man page of the system
carefully for details.

=item C<l_pid()>

If a call of the L<lock()> method with C<F_GETLK> indicates that

another process is holding the lock (in which case the L<l_type>
property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the
L<l_pid()> method returns the PID of the process holding the lock.
This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one
can then try to obtain a lock, release it or determine the current
holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()>

This method expects two arguments. The first one is a file handle
(or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B<but
neither> File::FcntlLock::Pure B<nor> File::FcntlLock::Inline), also
accepts a "raw" integer file descriptor. The second argument is a
flag indicating
 the action to be taken. So call it as in

 $fs->lock($fh, F_SETLK);

There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when
L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it
(if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain
a lock but a lock is already being held by some other process the
method returns C<undef> and C<errno> is set to C<EACCESS> or
C<EAGAIN> (please see the the man page for L<fcntl(2)> for more
details).

=item C<F_SETLKW>

is similar to C<F_SETLK>, but instead of returning an error if the
lock can't be obtained immediately it puts the calling process to
sleep, i.e., it blocks, until the lock is obtained at some later
time. If a signal is received while waiting for the lock the
method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process currently
is holding the lock. If there's no other lock the L<l_type>
property will be set to C<F_UNLCK>. Otherwise the flock structure object
is set to the values that would prevent us from obtaining a lock. There
may be several processes that keep us from getting a lock, including
some that themselves are blocked waiting to obtain a lock. C<F_GETLK>
will only make details of one of these processes visible, and one has
no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true",
i.e., a value that is true in boolean but 0 in numeric context. If
the method fails (as indicated by an C<undef> return value) you can
either immediately evaluate the error number (using $!, $ERRNO or
$OS_ERROR) or check for it via the methods discussed below at some
later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand
and File::FcntlLock::Pure and File::FcntlLock::Inline on the other,
due to the first calling
the system function L<fcntl(2)> directly
while the latter two invoke the Perl C<fcntl> function. Perl's
C<fcntl> function already returns a Perl error on some types of
invalid arguments. In contrast File::FcntlLock passes them on to the
L<fcntl(2)> system call and then returns the systems response to the
caller.

There are three methods for obtaining information about the
reason the a call of the L<lock()> method failed:

=over 4

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()>. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks

to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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```
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#
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# Package for file locking with fcntl(2) in which the binary layout of
# the C flock struct is determined via compiling and running a C program
# each time the package is loaded

package File::FcntlLock::Inline;

use 5.006001;
use strict;
use warnings;
use Fcntl;
use Config;
```

```
use File::Temp;
use File::Spec;
use base qw( File::FcntlLock::Core );


our $VERSION = File::FcntlLock::Core->VERSION;

our @EXPORT = @File::FcntlLock::Core::EXPORT;


my ( $packstr, @member_list );


##############################################################

BEGIN {
 # Create a C file in the preferred directory for temporary files for
 # probing the layout of the C 'flock struct'. Since __DATA__ can't
 # be used in a BEGIN block we've got to do with
 a HEREDOC.

 my $c_file = File::Temp->new( TEMPLATE => 'File-FcntlLock-XXXXXX',
        SUFFIX   => '.c',
        DIR      => File::Spec->tmpdir( ) );

 print $c_file <<EOF;
#include <stdio.h>
#include <stddef.h>
#include <stdlib.h>
#include <string.h>
#include <fcntl.h>
#include <limits.h>


#define membersize( type, member ) ( sizeof( ( ( type * ) NULL )->member ) )
#define NUM_ELEMS( p ) ( sizeof p / sizeof *p )

typedef struct {
   const char * name;
   size_t       size;
   size_t       offset;
}  Params;


/*-------------------------------------------------*
* Called from qsort() for sorting an array of Params structures
* in ascending order of their 'offset' members
*-------------------------------------------------*/
```

```
static int
comp( const void * a,
     const void * b )
{
   if ( a == b )
       return 0;
   return ( ( Params * ) a )->offset < ( ( Params * ) b )->offset ? -1 : 1;
}


/*-------------------------------------------------*
*-------------------------------------------------*/

int
main(
 void )
{
   Params params[ ] = { { "l_type",
                          CHAR_BIT * membersize( struct flock, l_type ),
                          CHAR_BIT * offsetof( struct flock, l_type ) },
                        { "l_whence",
                          CHAR_BIT * membersize( struct flock, l_whence ),
                          CHAR_BIT * offsetof( struct flock, l_whence ) },
                        { "l_start",
                          CHAR_BIT * membersize( struct flock, l_start ),
                          CHAR_BIT * offsetof( struct flock, l_start ) },
                        { "l_len",
                          CHAR_BIT * membersize( struct flock, l_len ),
                          CHAR_BIT * offsetof( struct flock, l_len ) },
                        { "l_pid",
                          CHAR_BIT * membersize( struct flock, l_pid ),
                          CHAR_BIT * offsetof( struct flock, l_pid ) } };
   size_t size = CHAR_BIT
 * sizeof( struct flock );
   size_t i;
   size_t pos = 0;
   char packstr[ 128 ] = "";

   /* All sizes and offsets must be divisable by 8 and the sizes of the
      members must be either 8-, 16-, 32- or 64-bit values, otherwise
      there's no good way to pack them. */

   if ( size % 8 )
       exit( EXIT_FAILURE );

   size /= 8;
```

```
  for ( i = 0; i < NUM_ELEMS( params ); ++i )
  {
     if (    params[ i ].size   % 8
          || params[ i ].offset % 8
          || (    params[ i ].size   != 8
               && params[ i ].size   != 16
               && params[ i ].size   != 32
               && params[ i ].size   != 64 ) )
         exit( EXIT_FAILURE );

     params[ i ].size   /= 8;
     params[ i ].offset /= 8;
  }

  /* Sort the array of structures for the members in ascending order of
     the offset */

  qsort( params, NUM_ELEMS( params ), sizeof *params, comp );

  /* Cobble together the template string to be passed
 to pack(), taking
     care of padding and also extra members we're not interested in. All
     the interesting members have signed integer types. */

  for ( i = 0; i < NUM_ELEMS( params ); ++i )
  {
 if ( pos != params[ i ].offset )
  sprintf( packstr + strlen( packstr ), "x%lu",
     ( unsigned long )( params[ i ].offset - pos ) );
 pos = params[ i ].offset;

     switch ( params[ i ].size )
     {
         case 1 :
   strcat( packstr, "c" );
             break;

         case 2 :
   strcat( packstr, "s" );
             break;

         case 4 :
   strcat( packstr, "l" );
             break;

         case 8 :
#if defined NO_Q_FORMAT
             exit( EXIT_FAILURE );
```

```
#endif
    strcat( packstr, "q" );
            break;

          default :
            exit( EXIT_FAILURE );
       }

  pos += params[ i ].size;
   }

  if ( pos < size )
      sprintf( packstr + strlen( packstr ), "x%lu",
               (unsigned long )
 ( size - pos ) );

  printf( "%s\\n", packstr );
  for ( i = 0; i < NUM_ELEMS( params ); ++i )
  printf( "%s\\n", params[ i ].name );

  return 0;
}
EOF

 close $c_file;

 # Try to compile and link the file.

 my $exec_file = File::Temp->new( TEMPLATE => 'File=FcntlLock-XXXXXX',
         DIR      => File::Spec->tmpdir( ) );
 close $exec_file;

  my $qflag = eval { pack 'q', 1 };
  $qflag = $@ ? '-DNO_Q_FORMAT' : '';

 die "Failed to run the C compiler '$Config{cc}'\n"
  if system "$Config{cc} $Config{ccflags} $qflag -o $exec_file $c_file";

 # Run the program and read it's output, it writes out the template string
 # we need for packing and unpacking the binary C struct flock required for
 # fcntl() and then the members of the structures in the sequence they are
 # defined in there.

 open my $pipe, '-|', $exec_file
  or die "Failed to run a compiled program: $!\n";

 chomp( $packstr = <$pipe> );
 while ( my $line = <$pipe> ) {
```

```
 chomp $line;
 push @member_list, $line;
 }

 #
 Make sure we got all information needed

   die   "Your Perl version does not support the 'q' format for pack() "
       . "and unpack()\n" unless defined $packstr;

 die "Failed to obtain all needed data about the C struct flock\n"
  unless @member_list == 5;
}


##############################################################
# Function for doing the actual fcntl() call: assembles the binary
# structure that must be passed to fcntl() from the File::FcntlLock
# object we get passed, calls it and then modifies the File::FcntlLock
# with the data from the flock structure

sub lock {
   my ( $self, $fh, $action ) = @_;

   my $buf = $self->pack_flock( );
   my $ret = fcntl( $fh, $action, $buf );

   if ( $ret  ) {
  $self->unpack_flock( $buf );
       $self->{ errno } = $self->{ error } = undef;
   } else {
       $self->get_error( $self->{ errno } = $! + 0 );
   }

   return $ret;
}


##############################################################
# Method for packing the data from
 the 'flock_struct' into a
# binary blob to be passed to fcntl().

sub pack_flock {
   my $self = shift;
 my @args;
 push @args, $self->{ $_ } for @member_list;
   return pack $packstr, @args;
```

```
}


##############################################################
# Method for unpacking the binary blob received from a call of
# fcntl() into the 'flock_struct'.

sub unpack_flock {
 my ( $self, $data ) = @_;
 my @res = unpack $packstr, $data;
 $self->{ $_ } = shift @res for @member_list;
}


=cut


1;


# Local variables:
# tab-width: 4
# indent-tabs-mode: nil
# End:
```

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1.249 patch 2.7.6-7build2

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1.250 fontconfig 2.13.1-4.2ubuntu5

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1.251 libxcb 1.14-3ubuntu3

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1.253 libdeflate 1.10-2

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1.254 zstd 1.4.8+dfsg-3build1

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1.255 python-certifi 2021.05.30

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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

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1.257 caffeine 2.9.3

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 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/ConcurrentStatsCounter.java
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*/

Found in path(s):
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/StripedBuffer.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Scheduler.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Pacer.java
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*/

Found in path(s):
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/base/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WriteThroughEntry.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Buffer.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CacheWriter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/GuardedStatsCounter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FrequencySketch.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Node.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/References.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedBuffer.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalAsyncLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalManualCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SerializationProxy.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Async.java
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Found in path(s):
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMWAWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMSA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDWMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWW.java

* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSMWR.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FWMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMWWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMWWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILSMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSMSAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PSMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSMWA.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMSAWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSMSAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMWAWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMWAWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMWAR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWAWR.java
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 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMSA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMWWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSAWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PSWRMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILAR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMSAW.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDWRMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMWWR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWWMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWRMW.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLSMSAR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWRMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWRMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWAWRMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLSMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILSAR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SISMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDAMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMSR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMSW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSSMWA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMSAR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLA.java

* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FD.java
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 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIL.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMSAWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWAWMW.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMWAWR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSSMSW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FWAWMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSMWA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PSWMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSSMWW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLSMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWMW.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMW.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSSA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FWA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMSR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMS.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SISMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLSMWWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDRMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSMWWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PD.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSAMW.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMSWR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSWMS.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMSR.java

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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSMW.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMSWR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FWARMW.java
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Eclipse

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

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

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

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.259 net-tools 2.10

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1.260 shared-mime-info 2.1-2

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1.261 libfido2 1.10.0-1

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1.263 xdg-user-dirs 0.17-2ubuntu4

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.266 libpsl 0.21.0-1.2build2

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1.267 rtmpdump 2.4+20151223.gitfa8646d.1-2build4

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1.268 libmaxminddb 1.5.2-1build2

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1.269 icu 70.1-2

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

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

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

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

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

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

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

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.272 supervisor 4.2.1-1ubuntu1

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1.273 libtirpc 1.3.2-2ubuntu0.1

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1.274 jakarta-inject-api 1.0.5

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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The UnixCrypt.java code implements the one way cryptography used by

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1.282 cracklib 2.9.6-3.4build4

1.282.1 Available under license :

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Version 2.1, February 1999

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^L
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be optional: if the application does not supply it, the square
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can be reasonably considered independent and separate works in
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"work that uses the
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with any other library
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your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE
 OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly

and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't
actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20

library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
>
Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
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> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
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>=20
> unlike the old license, GPL-2 prevents people from using cracklib

> unless their
> applications are also GPL-2 which imo is just wrong. it isnt
the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would
like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

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Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
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-mike

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> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message
as HTML
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Nathan Neulinger is the only one who can actually make said change ...
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CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use
 nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct
 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit

From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
 RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

 -a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
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thus LGPL-2.1 enters to fill this void.
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-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I
think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--
If it's sinful, it's more fun.

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SMTPSVC(6.0.3790.3959);
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SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
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 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L

for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
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X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

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> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.283 pkg-config 0.29.2-1ubuntu3

1.283.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

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

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal

permission to copy, distribute and/or modify the library.

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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It supports procedural programming,
object-oriented programming, functional programming,
data-driven programming, and data description.

Lua combines simple procedural syntax with powerful data description
constructs based on associative arrays and extensible semantics.
```

Lua is dynamically typed,
runs by interpreting bytecode with a register-based
virtual machine,
and has automatic memory management with
incremental garbage collection,
making it ideal for configuration, scripting,
and rapid prototyping.

Lua is implemented as a library, written in @emphx{clean C},
the common subset of @N{Standard C} and C++.
The Lua distribution includes a host program called @id{lua},
which
uses the Lua library to offer a complete,
standalone Lua interpreter,
for interactive or batch use.
Lua is intended to be used both as a powerful, lightweight,
embeddable scripting language for any program that needs one,
and as a powerful but lightweight and efficient stand-alone language.

As an extension language, Lua has no notion of a @Q{main} program:
it works @emph{embedded} in a host client,
called the @emph{embedding program} or simply the @emphx{host}.
(Frequently, this host is the stand-alone @id{lua} program.)
The host program can invoke functions to execute a piece of Lua code,
can write and read Lua variables,
and can register @N{C functions} to be called by Lua code.
Through the use of @N{C functions}, Lua can be augmented to cope with
a wide range of different domains,
thus creating customized programming languages sharing a syntactical framework.

Lua is free software,
and is provided as usual with no guarantees,
as stated in its license.
The implementation
described in this manual is available
at Lua's official web site, @id{www.lua.org}.

Like any other reference manual,
this document is dry in places.
For a discussion of the decisions behind the design of Lua,
see the technical papers available at Lua's web site.
For a detailed introduction to programming in Lua,
see Roberto's book, @emphx{Programming in Lua}.

}

@C{----------}

@sect1{basic| @title{Basic Concepts}

This section describes the basic concepts of the language.

@sect2{TypesSec| @title{Values and Types}

Lua is a @emph{dynamically typed language}.
This means that
variables do not have types; only values do.
There are no type definitions in the language.
All values carry their own type.

All values in Lua are @emph{first-class values}.
This means that all values can be stored in variables,
passed as arguments to other functions, and returned as results.

There are eight @x{basic types} in Lua:
@def{nil}, @def{boolean},
 @def{number},
@def{string}, @def{function}, @def{userdata},
@def{thread}, and @def{table}.
The type @emph{nil} has one single value, @nil,
whose main property is to be different from any other value;
it usually represents the absence of a useful value.
The type @emph{boolean} has two values, @false and @true.
Both @nil and @false make a condition false;
any other value makes it true.
The type @emph{number} represents both
integer numbers and real (floating-point) numbers.
The type @emph{string} represents immutable sequences of bytes.
@index{eight-bit clean}
Lua is 8-bit clean:
strings can contain any 8-bit value,
including @x{embedded zeros} (@Char{\0}).
Lua is also encoding-agnostic;
it makes no assumptions about the contents of a string.

The type @emph{number} uses two internal representations,
or two @x{subtypes},
one called @def{integer} and the other called @def{float}.
Lua has explicit rules about when each representation is used,
but it also converts between them automatically
 as needed @see{coercion}.
Therefore,
the programmer may choose to mostly ignore the difference
between integers and floats
or to assume complete control over the representation of each number.
Standard Lua uses 64-bit integers and double-precision (64-bit) floats,

but you can also compile Lua so that it
uses 32-bit integers and/or single-precision (32-bit) floats.
The option with 32 bits for both integers and floats
is particularly attractive
for small machines and embedded systems.
(See macro @id{LUA_32BITS} in file @id{luaconf.h}.)

Lua can call (and manipulate) functions written in Lua and
functions written in C @see{functioncall}.
Both are represented by the type @emph{function}.

The type @emph{userdata} is provided to allow arbitrary @N{C data} to
be stored in Lua variables.
A userdata value represents a block of raw memory.
There are two kinds of userdata:
@emphx{full userdata},
which is an object with a block of memory managed by Lua,
and @emphx{light userdata},
which
is simply a @N{C pointer} value.
Userdata has no predefined operations in Lua,
except assignment and identity test.
By using @emph{metatables},
the programmer can define operations for full userdata values
@see{metatable}.
Userdata values cannot be created or modified in Lua,
only through the @N{C API}.
This guarantees the integrity of data owned by the host program.

The type @def{thread} represents independent threads of execution
and it is used to implement coroutines @see{coroutine}.
Lua threads are not related to operating-system threads.
Lua supports coroutines on all systems,
even those that do not support threads natively.

The type @emph{table} implements @x{associative arrays},
that is, @x{arrays} that can have as indices not only numbers,
but any Lua value except @nil and @x{NaN}.
(@emphx{Not a Number} is a special value used to represent
undefined or unrepresentable numerical results, such as @T{0/0}.)
Tables can be @emph{heterogeneous};
that is, they can contain values of
all types (except @nil).
Any key with value @nil is not considered part of the table.
Conversely, any key that is not part of a table has
an associated value @nil.

Tables are the sole data-structuring mechanism in Lua;

they can be used to represent ordinary arrays, lists,
symbol tables, sets, records, graphs, trees, etc.
To represent @x{records}, Lua uses the field name as an index.
The language supports this representation by
providing @id{a.name} as syntactic sugar for @T{a["name"]}.
There are several convenient ways to create tables in Lua
@see{tableconstructor}.

Like indices,
the values of table fields can be of any type.
In particular,
because functions are first-class values,
table fields can contain functions.
Thus tables can also carry @emph{methods} @see{func-def}.

The indexing of tables follows
the definition of raw equality in the language.
The expressions @T{a[i]} and @T{a[j]}
denote the same table element
if and only if @id{i} and @id{j} are raw equal
(that is, equal
 without metamethods).
In particular, floats with integral values
are equal to their respective integers
(e.g., @T{1.0 == 1}).
To avoid ambiguities,
any float with integral value used as a key
is converted to its respective integer.
For instance, if you write @T{a[2.0] = true},
the actual key inserted into the table will be the
integer @T{2}.
(On the other hand,
2 and @St{2} are different Lua values and therefore
denote different table entries.)

Tables, functions, threads, and (full) userdata values are @emph{objects}:
variables do not actually @emph{contain} these values,
only @emph{references} to them.
Assignment, parameter passing, and function returns
always manipulate references to such values;
these operations do not imply any kind of copy.

The library function @Lid{type} returns a string describing the type
of a given value @see{predefined}.

}

@sect2{globalenv| @title{Environments and the Global Environment}

As will be discussed in @refsec{variables} and @refsec{assignment},
any
 reference to a free name
(that is, a name not bound to any declaration) @id{var}
is syntactically translated to @T{_ENV.var}.
Moreover, every chunk is compiled in the scope of
an external local variable named @id{_ENV} @see{chunks},
so @id{_ENV} itself is never a free name in a chunk.

Despite the existence of this external @id{_ENV} variable and
the translation of free names,
@id{_ENV} is a completely regular name.
In particular,
you can define new variables and parameters with that name.
Each reference to a free name uses the @id{_ENV} that is
visible at that point in the program,
following the usual visibility rules of Lua @see{visibility}.

Any table used as the value of @id{_ENV} is called an @def{environment}.

Lua keeps a distinguished environment called the @def{global environment}.
This value is kept at a special index in the C registry @see{registry}.
In Lua, the global variable @Lid{_G} is initialized with this same value.
(@Lid{_G} is never used internally.)

When Lua
 loads a chunk,
the default value for its @id{_ENV} upvalue
is the global environment @seeF{load}.
Therefore, by default,
free names in Lua code refer to entries in the global environment
(and, therefore, they are also called @def{global variables}).
Moreover, all standard libraries are loaded in the global environment
and some functions there operate on that environment.
You can use @Lid{load} (or @Lid{loadfile})
to load a chunk with a different environment.
(In C, you have to load the chunk and then change the value
of its first upvalue.)

}

@sect2{error| @title{Error Handling}

Because Lua is an embedded extension language,
all Lua actions start from @N{C code} in the host program
calling a function from the Lua library.

(When you use Lua standalone,
the @id{lua} application is the host program.)
Whenever an error occurs during
the compilation or execution of a Lua chunk,
control returns to the host,
which can take appropriate measures
(such as printing an error message).

Lua code
can explicitly generate an error by calling the
@Lid{error} function.
If you need to catch errors in Lua,
you can use @Lid{pcall} or @Lid{xpcall}
to call a given function in @emphx{protected mode}.

Whenever there is an error,
an @def{error object} (also called an @def{error message})
is propagated with information about the error.
Lua itself only generates errors whose error object is a string,
but programs may generate errors with
any value as the error object.
It is up to the Lua program or its host to handle such error objects.

When you use @Lid{xpcall} or @Lid{lua_pcall},
you may give a @def{message handler}
to be called in case of errors.
This function is called with the original error object
and returns a new error object.
It is called before the error unwinds the stack,
so that it can gather more information about the error,
for instance by inspecting the stack and creating a stack traceback.
This message handler is still protected by the protected call;
so, an error inside
the message handler
will call the message handler again.
If this loop goes on for too long,
Lua breaks it and returns an appropriate message.
(The message handler is called only for regular runtime errors.
It is not called for memory-allocation errors
nor for errors while running finalizers.)

}

@sect2{metatable| @title{Metatables and Metamethods}

Every value in Lua can have a @emph{metatable}.
This @def{metatable} is an ordinary Lua table

that defines the behavior of the original value
under certain special operations.
You can change several aspects of the behavior
of operations over a value by setting specific fields in its metatable.
For instance, when a non-numeric value is the operand of an addition,
Lua checks for a function in the field @St{__add} of the value's metatable.
If it finds one,
Lua calls this function to perform the addition.

The key for each event in a metatable is a string
with the event name prefixed by two underscores;
the corresponding values are called @def{metamethods}.
In
the previous example, the key is @St{__add}
and the metamethod is the function that performs the addition.
Unless stated otherwise,
metamethods should be function values.

You can query the metatable of any value
using the @Lid{getmetatable} function.
Lua queries metamethods in metatables using a raw access @seeF{rawget}.
So, to retrieve the metamethod for event @id{ev} in object @id{o},
Lua does the equivalent to the following code:
@verbatim{
rawget(getmetatable(@rep{o}) or {}, "__@rep{ev}")
}

You can replace the metatable of tables
using the @Lid{setmetatable} function.
You cannot change the metatable of other types from Lua code
(except by using the @link{debuglib|debug library});
you should use the @N{C API} for that.

Tables and full userdata have individual metatables
(although multiple tables and userdata can share their metatables).
Values of all other types share one single metatable per type;
that is, there is one single metatable for all numbers,
one for all
strings, etc.
By default, a value has no metatable,
but the string library sets a metatable for the string type @see{strlib}.

A metatable controls how an object behaves in
arithmetic operations, bitwise operations,
order comparisons, concatenation, length operation, calls, and indexing.
A metatable also can define a function to be called
when a userdata or a table is @link{GC|garbage collected}.

For the unary operators (negation, length, and bitwise NOT),
the metamethod is computed and called with a dummy second operand,
equal to the first one.
This extra operand is only to simplify Lua's internals
(by making these operators behave like a binary operation)
and may be removed in future versions.
(For most uses this extra operand is irrelevant.)

A detailed list of events controlled by metatables is given next.
Each operation is identified by its corresponding key.

@description{

@item{@idx{__add}|
the addition (@T{+}) operation.
If any operand for an addition is not a number
(nor
 a string coercible to a number),
Lua will try to call a metamethod.
First, Lua will check the first operand (even if it is valid).
If that operand does not define a metamethod for @idx{__add},
then Lua will check the second operand.
If Lua can find a metamethod,
it calls the metamethod with the two operands as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
Otherwise,
it raises an error.
}

@item{@idx{__sub}|
the subtraction (@T{-}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__mul}|
the multiplication (@T{*}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__div}|
the division (@T{/}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__mod}|
the modulo (@T{%}) operation.

Behavior similar to the addition operation.
}

@item{@idx{__pow}|
the exponentiation (@T{^}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__unm}|
the negation (unary @T{-}) operation.
Behavior
 similar to the addition operation.
}

@item{@idx{__idiv}|
the floor division (@T{//}) operation.
Behavior similar to the addition operation.
}

@item{@idx{__band}|
the bitwise AND (@T{&}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither an integer
nor a value coercible to an integer @see{coercion}.
}

@item{@idx{__bor}|
the bitwise OR (@T{|}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__bxor}|
the bitwise exclusive OR (binary @T{~}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__bnot}|
the bitwise NOT (unary @T{~}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shl}|
the bitwise left shift (@T{<<}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__shr}|

the bitwise right shift (@T{>>}) operation.
Behavior similar to the bitwise AND operation.
}

@item{@idx{__concat}|
the concatenation (@T{..}) operation.
Behavior
 similar to the addition operation,
except that Lua will try a metamethod
if any operand is neither a string nor a number
(which is always coercible to a string).
}

@item{@idx{__len}|
the length (@T{#}) operation.
If the object is not a string,
Lua will try its metamethod.
If there is a metamethod,
Lua calls it with the object as argument,
and the result of the call
(always adjusted to one value)
is the result of the operation.
If there is no metamethod but the object is a table,
then Lua uses the table length operation @see{len-op}.
Otherwise, Lua raises an error.
}

@item{@idx{__eq}|
the equal (@T{==}) operation.
Behavior similar to the addition operation,
except that Lua will try a metamethod only when the values
being compared are either both tables or both full userdata
and they are not primitively equal.
The result of the call is always converted to a boolean.
}

@item{@idx{__lt}|
the less than (@T{<}) operation.
Behavior similar to the addition operation,
except that
 Lua will try a metamethod only when the values
being compared are neither both numbers nor both strings.
The result of the call is always converted to a boolean.
}

@item{@idx{__le}|
the less equal (@T{<=}) operation.
Unlike other operations,

the less-equal operation can use two different events.
First, Lua looks for the @idx{__le} metamethod in both operands,
like in the less than operation.
If it cannot find such a metamethod,
then it will try the @idx{__lt} metamethod,
assuming that @T{a <= b} is equivalent to @T{not (b < a)}.
As with the other comparison operators,
the result is always a boolean.
(This use of the @idx{__lt} event can be removed in future versions;
it is also slower than a real @idx{__le} metamethod.)
}

@item{@idx{__index}|
The indexing access operation @T{table[key]}.
This event happens when @id{table} is not a table or
when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Despite the name,
the metamethod for this event can be either
a function or a table.
If it is a function,
it is called with @id{table} and @id{key} as arguments,
and the result of the call
(adjusted to one value)
is the result of the operation.
If it is a table,
the final result is the result of indexing this table with @id{key}.
(This indexing is regular, not raw,
and therefore can trigger another metamethod.)
}

@item{@idx{__newindex}|
The indexing assignment @T{table[key] = value}.
Like the index event,
this event happens when @id{table} is not a table or
when @id{key} is not present in @id{table}.
The metamethod is looked up in @id{table}.

Like with indexing,
the metamethod for this event can be either a function or a table.
If it is a function,
it is called with @id{table}, @id{key}, and @id{value} as arguments.
If it is a table,
Lua does an indexing assignment to this table with the same key and value.
(This assignment is regular, not raw,
and therefore can trigger another metamethod.)

Whenever there is a @idx{__newindex} metamethod,
Lua
 does not perform the primitive assignment.
(If necessary,
the metamethod itself can call @Lid{rawset}
to do the assignment.)
}

@item{@idx{__call}|
The call operation @T{func(args)}.
This event happens when Lua tries to call a non-function value
(that is, @id{func} is not a function).
The metamethod is looked up in @id{func}.
If present,
the metamethod is called with @id{func} as its first argument,
followed by the arguments of the original call (@id{args}).
All results of the call
are the result of the operation.
(This is the only metamethod that allows multiple results.)
}

}

It is a good practice to add all needed metamethods to a table
before setting it as a metatable of some object.
In particular, the @idx{__gc} metamethod works only when this order
is followed @see{finalizers}.

Because metatables are regular tables,
they can contain arbitrary fields,
not only the event names defined above.
Some functions in the standard library
(e.g., @Lid{tostring})
use other fields in metatables
 for their own purposes.

}

@sect2{GC| @title{Garbage Collection}

Lua performs automatic memory management.
This means that
you do not have to worry about allocating memory for new objects
or freeing it when the objects are no longer needed.
Lua manages memory automatically by running
a @def{garbage collector} to collect all @emph{dead objects}
(that is, objects that are no longer accessible from Lua).
All memory used by Lua is subject to automatic management:

strings, tables, userdata, functions, threads, internal structures, etc.

Lua implements an incremental mark-and-sweep collector.
It uses two numbers to control its garbage-collection cycles:
the @def{garbage-collector pause} and
the @def{garbage-collector step multiplier}.
Both use percentage points as units
(e.g., a value of 100 means an internal value of 1).

The garbage-collector pause
controls how long the collector waits before starting a new cycle.
Larger values make the collector less aggressive.
Values smaller than
100 mean the collector will not wait to
start a new cycle.
A value of 200 means that the collector waits for the total memory in use
to double before starting a new cycle.

The garbage-collector step multiplier
controls the relative speed of the collector relative to
memory allocation.
Larger values make the collector more aggressive but also increase
the size of each incremental step.
You should not use values smaller than 100,
because they make the collector too slow and
can result in the collector never finishing a cycle.
The default is 200,
which means that the collector runs at @Q{twice}
the speed of memory allocation.

If you set the step multiplier to a very large number
(larger than 10% of the maximum number of
bytes that the program may use),
the collector behaves like a stop-the-world collector.
If you then set the pause to 200,
the collector behaves as in old Lua versions,
doing a complete collection every time Lua doubles its
memory usage.

You can change these numbers
by calling @Lid{lua_gc} in C
or @Lid{collectgarbage} in Lua.
You can also use these functions to control
the collector directly (e.g., stop and restart it).

@sect3{finalizers| @title{Garbage-Collection Metamethods}

You can set garbage-collector metamethods for tables
and, using the @N{C API},
for full userdata @see{metatable}.
These metamethods are also called @def{finalizers}.
Finalizers allow you to coordinate Lua's garbage collection
with external resource management
(such as closing files, network or database connections,
or freeing your own memory).

For an object (table or userdata) to be finalized when collected,
you must @emph{mark} it for finalization.
@index{mark (for finalization)}
You mark an object for finalization when you set its metatable
and the metatable has a field indexed by the string @St{__gc}.
Note that if you set a metatable without a @idx{__gc} field
and later create that field in the metatable,
the object will not be marked for finalization.

When a marked
object becomes garbage,
it is not collected immediately by the garbage collector.
Instead, Lua puts it in a list.
After the collection,
Lua goes through that list.
For each object in the list,
it checks the object's @idx{__gc} metamethod:
If it is a function,
Lua calls it with the object as its single argument;
if the metamethod is not a function,
Lua simply ignores it.

At the end of each garbage-collection cycle,
the finalizers for objects are called in
the reverse order that the objects were marked for finalization,
among those collected in that cycle;
that is, the first finalizer to be called is the one associated
with the object marked last in the program.
The execution of each finalizer may occur at any point during
the execution of the regular code.

Because the object being collected must still be used by the finalizer,
that object (and other objects accessible only through it)
must be @emph{resurrected} by Lua.@index{resurrection}
Usually, this resurrection is transient,
and the
object memory is freed in the next garbage-collection cycle.
However, if the finalizer stores the object in some global place
(e.g., a global variable),

then the resurrection is permanent.
Moreover, if the finalizer marks a finalizing object for finalization again,
its finalizer will be called again in the next cycle where the
object is unreachable.
In any case,
the object memory is freed only in a GC cycle where
the object is unreachable and not marked for finalization.

When you close a state @seeF{lua_close},
Lua calls the finalizers of all objects marked for finalization,
following the reverse order that they were marked.
If any finalizer marks objects for collection during that phase,
these marks have no effect.

}

@sect3{weak-table| @title{Weak Tables}

A @def{weak table} is a table whose elements are
@def{weak references}.
A weak reference is ignored by the garbage collector.
In other words,
if the only references to an object are weak references,
then the garbage collector
will collect that object.

A weak table can have weak keys, weak values, or both.
A table with weak values allows the collection of its values,
but prevents the collection of its keys.
A table with both weak keys and weak values allows the collection of
both keys and values.
In any case, if either the key or the value is collected,
the whole pair is removed from the table.
The weakness of a table is controlled by the
@idx{__mode} field of its metatable.
If the @idx{__mode} field is a string containing the @N{character @Char{k}},
the keys in the table are weak.
If @idx{__mode} contains @Char{v},
the values in the table are weak.

A table with weak keys and strong values
is also called an @def{ephemeron table}.
In an ephemeron table,
a value is considered reachable only if its key is reachable.
In particular,
if the only reference to a key comes through its value,
the pair is removed.

Any change in the weakness of a table may take effect only
at the next collect cycle.
In particular, if
you change the weakness to a stronger mode,
Lua may still collect some items from that table
before the change takes effect.

Only objects that have an explicit construction
are removed from weak tables.
Values, such as numbers and @x{light @N{C functions}},
are not subject to garbage collection,
and therefore are not removed from weak tables
(unless their associated values are collected).
Although strings are subject to garbage collection,
they do not have an explicit construction,
and therefore are not removed from weak tables.

Resurrected objects
(that is, objects being finalized
and objects accessible only through objects being finalized)
have a special behavior in weak tables.
They are removed from weak values before running their finalizers,
but are removed from weak keys only in the next collection
after running their finalizers, when such objects are actually freed.
This behavior allows the finalizer to access properties
associated with the object through weak tables.

If a weak
table is among the resurrected objects in a collection cycle,
it may not be properly cleared until the next cycle.

}

}

@sect2{coroutine| @title{Coroutines}

Lua supports coroutines,
also called @emphx{collaborative multithreading}.
A coroutine in Lua represents an independent thread of execution.
Unlike threads in multithread systems, however,
a coroutine only suspends its execution by explicitly calling
a yield function.

You create a coroutine by calling @Lid{coroutine.create}.
Its sole argument is a function
that is the main function of the coroutine.
The @id{create} function only creates a new coroutine and

returns a handle to it (an object of type @emph{thread});
it does not start the coroutine.

You execute a coroutine by calling @Lid{coroutine.resume}.
When you first call @Lid{coroutine.resume},
passing as its first argument
a thread returned by @Lid{coroutine.create},
the coroutine starts its execution by
calling its main function.
Extra arguments passed to @Lid{coroutine.resume}
are passed
as arguments to that function.
After the coroutine starts running,
it runs until it terminates or @emph{yields}.

A coroutine can terminate its execution in two ways:
normally, when its main function returns
(explicitly or implicitly, after the last instruction);
and abnormally, if there is an unprotected error.
In case of normal termination,
@Lid{coroutine.resume} returns @true,
plus any values returned by the coroutine main function.
In case of errors, @Lid{coroutine.resume} returns @false
plus an error object.

A coroutine yields by calling @Lid{coroutine.yield}.
When a coroutine yields,
the corresponding @Lid{coroutine.resume} returns immediately,
even if the yield happens inside nested function calls
(that is, not in the main function,
but in a function directly or indirectly called by the main function).
In the case of a yield, @Lid{coroutine.resume} also returns @true,
plus any values passed to @Lid{coroutine.yield}.
The next time you resume the same coroutine,
it
continues its execution from the point where it yielded,
with the call to @Lid{coroutine.yield} returning any extra
arguments passed to @Lid{coroutine.resume}.

Like @Lid{coroutine.create},
the @Lid{coroutine.wrap} function also creates a coroutine,
but instead of returning the coroutine itself,
it returns a function that, when called, resumes the coroutine.
Any arguments passed to this function
go as extra arguments to @Lid{coroutine.resume}.
@Lid{coroutine.wrap} returns all the values returned by @Lid{coroutine.resume},
except the first one (the boolean error code).
Unlike @Lid{coroutine.resume},

@Lid{coroutine.wrap} does not catch errors;
any error is propagated to the caller.

As an example of how coroutines work,
consider the following code:
@verbatim{
```
function foo (a)
 print("foo", a)
 return coroutine.yield(2*a)
end

co = coroutine.create(function (a,b)
    print("co-body", a, b)
    local r = foo(a+1)
    print("co-body", r)
    local r, s = coroutine.yield(a+b,
 a-b)
    print("co-body", r, s)
    return b, "end"
end)

print("main", coroutine.resume(co, 1, 10))
print("main", coroutine.resume(co, "r"))
print("main", coroutine.resume(co, "x", "y"))
print("main", coroutine.resume(co, "x", "y"))
```
}
When you run it, it produces the following output:
@verbatim{
```
co-body 1       10
foo     2
main    true    4
co-body r
main    true    11      -9
co-body x       y
main    true    10      end
main    false   cannot resume dead coroutine
```
}

You can also create and manipulate coroutines through the C API:
see functions @Lid{lua_newthread}, @Lid{lua_resume},
and @Lid{lua_yield}.

}

}

@C{----------}

@sect1{language| @title{The Language}

This section describes the lexis, the syntax, and the semantics of Lua.
In other words,
this section describes
which tokens are valid,
how they can be combined,
and what their combinations mean.

Language constructs will be explained using the usual extended
 BNF notation,
in which
@N{@bnfrep{@rep{a}} means 0} or more @rep{a}'s, and
@N{@bnfopt{@rep{a}} means} an optional @rep{a}.
Non-terminals are shown like @bnfNter{non-terminal},
keywords are shown like @rw{kword},
and other terminal symbols are shown like @bnfter{=}.
The complete syntax of Lua can be found in @refsec{BNF}
at the end of this manual.

@sect2{lexical| @title{Lexical Conventions}

Lua is a @x{free-form} language.
It ignores spaces (including new lines) and comments
between lexical elements (@x{tokens}),
except as delimiters between @x{names} and @x{keywords}.

@def{Names}
(also called @def{identifiers})
in Lua can be any string of letters,
digits, and underscores,
not beginning with a digit and
not being a reserved word.
Identifiers are used to name variables, table fields, and labels.

The following @def{keywords} are reserved
and cannot be used as names:
@index{reserved words}
@verbatim{
and break do else elseif end
false for function
 goto if in
local nil not or repeat return
then true until while
}

Lua is a case-sensitive language:
@id{and} is a reserved word, but @id{And} and @id{AND}

are two different, valid names.
As a convention,
programs should avoid creating
names that start with an underscore followed by
one or more uppercase letters (such as @Lid{_VERSION}).

The following strings denote other @x{tokens}:
@verbatim{
+ - * / % ^ #
& ~ | << >> //
== ~= <= >= < > =
( ) { } [ ] ::
; : , ...
}

A @def{short literal string}
can be delimited by matching single or double quotes,
and can contain the following C-like escape sequences:
@Char{\a} (bell),
@Char{\b} (backspace),
@Char{\f} (form feed),
@Char{\n} (newline),
@Char{\r} (carriage return),
@Char{\t} (horizontal tab),
@Char{\v} (vertical tab),
@Char{\\} (backslash),
@Char{\"} (quotation mark [double
quote]),
and @Char{\'} (apostrophe [single quote]).
A backslash followed by a line break
results in a newline in the string.
The escape sequence @Char{\z} skips the following span
of white-space characters,
including line breaks;
it is particularly useful to break and indent a long literal string
into multiple lines without adding the newlines and spaces
into the string contents.
A short literal string cannot contain unescaped line breaks
nor escapes not forming a valid escape sequence.

We can specify any byte in a short literal string by its numeric value
(including @x{embedded zeros}).
This can be done
with the escape sequence @T{\x@rep{XX}},
where @rep{XX} is a sequence of exactly two hexadecimal digits,
or with the escape sequence @T{\@rep{ddd}},
where @rep{ddd} is a sequence of up to three decimal digits.
(Note that if a decimal escape sequence is to be followed by a digit,

it must be expressed using exactly three digits.)

The @x{UTF-8} encoding of a @x{Unicode} character
can
be inserted in a literal string with
the escape sequence @T{\u{@rep{XXX}}}
(note the mandatory enclosing brackets),
where @rep{XXX} is a sequence of one or more hexadecimal digits
representing the character code point.

Literal strings can also be defined using a long format
enclosed by @def{long brackets}.
We define an @def{opening long bracket of level @rep{n}} as an opening
square bracket followed by @rep{n} equal signs followed by another
opening square bracket.
So, an opening long bracket of @N{level 0} is written as @T{[[}, @C{]]}
an opening long bracket of @N{level 1} is written as @T{[=[}, @C{]]}
and so on.
A @emph{closing long bracket} is defined similarly;
for instance,
a closing long bracket of @N{level 4} is written as @C{[[} @T{]====]}.
A @def{long literal} starts with an opening long bracket of any level and
ends at the first closing long bracket of the same level.
It can contain any text except a closing bracket of the same level.
Literals in this bracketed form can run
for several lines,
do not interpret any escape sequences,
and ignore long brackets of any other level.
Any kind of end-of-line sequence
(carriage return, newline, carriage return followed by newline,
or newline followed by carriage return)
is converted to a simple newline.

For convenience,
when the opening long bracket is immediately followed by a newline,
the newline is not included in the string.
As an example, in a system using ASCII
(in which @Char{a} is coded @N{as 97},
newline is coded @N{as 10}, and @Char{1} is coded @N{as 49}),
the five literal strings below denote the same string:
@verbatim{
a = 'alo\n123'"
a = "alo\n123\""
a = '\97lo\10\04923'"
a = [[alo
123"]]
a = [==[
alo

123"]==]
}

Any byte in a literal string not
explicitly affected by the previous rules represents itself.
However, Lua opens files for parsing in text mode,
and the system file functions may have problems with
some control characters.
So, it is safer to represent
non-text data as a quoted literal with
explicit
escape sequences for the non-text characters.

A @def{numeric constant} (or @def{numeral})
can be written with an optional fractional part
and an optional decimal exponent,
marked by a letter @Char{e} or @Char{E}.
Lua also accepts @x{hexadecimal constants},
which start with @T{0x} or @T{0X}.
Hexadecimal constants also accept an optional fractional part
plus an optional binary exponent,
marked by a letter @Char{p} or @Char{P}.
A numeric constant with a radix point or an exponent
denotes a float;
otherwise,
if its value fits in an integer,
it denotes an integer.
Examples of valid integer constants are
@verbatim{
3 345 0xff 0xBEBADA
}
Examples of valid float constants are
@verbatim{
3.0 3.1416 314.16e-2 0.31416E1 34e1
0x0.1E 0xA23p-4 0X1.921FB54442D18P+1
}

A @def{comment} starts with a double hyphen (@T{--})
anywhere outside a string.
If the text immediately after @T{--} is not an opening long bracket,
the comment is a @def{short comment},
which runs until
the end of the line.
Otherwise, it is a @def{long comment},
which runs until the corresponding closing long bracket.
Long comments are frequently used to disable code temporarily.

}

@sect2{variables| @title{Variables}

Variables are places that store values.
There are three kinds of variables in Lua:
global variables, local variables, and table fields.

A single name can denote a global variable or a local variable
(or a function's formal parameter,
which is a particular kind of local variable):
@Produc{
@producname{var}@producbody{@bnfNter{Name}}
}
@bnfNter{Name} denotes identifiers, as defined in @See{lexical}.

Any variable name is assumed to be global unless explicitly declared
as a local @see{localvar}.
@x{Local variables} are @emph{lexically scoped}:
local variables can be freely accessed by functions
defined inside their scope @see{visibility}.

Before the first assignment to a variable, its value is @nil.

Square brackets are used to index a table:
@Produc{
@producname{var}@producbody{prefixexp
 @bnfter{[} exp @bnfter{]}}
}
The meaning of accesses to table fields can be changed via metatables
@see{metatable}.

The syntax @id{var.Name} is just syntactic sugar for
@T{var["Name"]}:
@Produc{
@producname{var}@producbody{prefixexp @bnfter{.} @bnfNter{Name}}
}

An access to a global variable @id{x}
is equivalent to @id{_ENV.x}.
Due to the way that chunks are compiled,
@id{_ENV} is never a global name @see{globalenv}.

}

@sect2{stats| @title{Statements}

Lua supports an almost conventional set of @x{statements},
similar to those in Pascal or C.

This set includes
assignments, control structures, function calls,
and variable declarations.

@sect3{@title{Blocks}

A @x{block} is a list of statements,
which are executed sequentially:
@Produc{
@producname{block}@producbody{@bnfrep{stat}}
}
Lua has @def{empty statements}
that allow you to separate statements with semicolons,
start a block with a semicolon
or write two semicolons in sequence:
@Produc{
@producname{stat}@producbody{@bnfter{;}}
}

Function
 calls and assignments
can start with an open parenthesis.
This possibility leads to an ambiguity in Lua's grammar.
Consider the following fragment:
@verbatim{
a = b + c
(print or io.write)('done')
}
The grammar could see it in two ways:
@verbatim{
a = b + c(print or io.write)('done')

a = b + c; (print or io.write)('done')
}
The current parser always sees such constructions
in the first way,
interpreting the open parenthesis
as the start of the arguments to a call.
To avoid this ambiguity,
it is a good practice to always precede with a semicolon
statements that start with a parenthesis:
@verbatim{
;(print or io.write)('done')
}

A block can be explicitly delimited to produce a single statement:
@Produc{
@producname{stat}@producbody{@Rw{do} block @Rw{end}}

}
Explicit blocks are useful
to control the scope of variable declarations.
Explicit blocks are also sometimes used to
add a @Rw{return} statement in the middle
of another block @see{control}.

}

@sect3{chunks|
 @title{Chunks}

The unit of compilation of Lua is called a @def{chunk}.
Syntactically,
a chunk is simply a block:
@Produc{
@producname{chunk}@producbody{block}
}

Lua handles a chunk as the body of an anonymous function
with a variable number of arguments
@see{func-def}.
As such, chunks can define local variables,
receive arguments, and return values.
Moreover, such anonymous function is compiled as in the
scope of an external local variable called @id{_ENV} @see{globalenv}.
The resulting function always has @id{_ENV} as its only upvalue,
even if it does not use that variable.

A chunk can be stored in a file or in a string inside the host program.
To execute a chunk,
Lua first @emph{loads} it,
precompiling the chunk's code into instructions for a virtual machine,
and then Lua executes the compiled code
with an interpreter for the virtual machine.

Chunks can also be precompiled into binary form;
see program @idx{luac} and function @Lid{string.dump} for details.
Programs in
 source and compiled forms are interchangeable;
Lua automatically detects the file type and acts accordingly @seeF{load}.

}

@sect3{assignment| @title{Assignment}

Lua allows @x{multiple assignments}.
Therefore, the syntax for assignment

defines a list of variables on the left side
and a list of expressions on the right side.
The elements in both lists are separated by commas:
@Produc{
@producname{stat}@producbody{varlist @bnfter{=} explist}
@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}
@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}
}
Expressions are discussed in @See{expressions}.

Before the assignment,
the list of values is @emph{adjusted} to the length of
the list of variables.@index{adjustment}
If there are more values than needed,
the excess values are thrown away.
If there are fewer values than needed,
the list is extended with as many @nil's as needed.
If the list of expressions ends with a function call,
then all values returned by that call enter
the list of values,
before the adjustment
(except when the call is enclosed in parentheses; see @See{expressions}).

The assignment statement first evaluates all its expressions
and only then the assignments are performed.
Thus the code
@verbatim{
i = 3
i, a[i] = i+1, 20
}
sets @T{a[3]} to 20, without affecting @T{a[4]}
because the @id{i} in @T{a[i]} is evaluated (to 3)
before it is @N{assigned 4}.
Similarly, the line
@verbatim{
x, y = y, x
}
exchanges the values of @id{x} and @id{y},
and
@verbatim{
x, y, z = y, z, x
}
cyclically permutes the values of @id{x}, @id{y}, and @id{z}.

An assignment to a global name @T{x = val}
is equivalent to the assignment
@T{_ENV.x = val} @see{globalenv}.

The meaning of assignments to table fields and
global variables (which are actually table fields, too)
can be changed via metatables @see{metatable}.

}

@sect3{control| @title{Control Structures}
The control structures
@Rw{if}, @Rw{while}, and @Rw{repeat} have the usual meaning and
familiar syntax:
@index{while-do
 statement}
@index{repeat-until statement}
@index{if-then-else statement}
@Produc{
@producname{stat}@producbody{@Rw{while} exp @Rw{do} block @Rw{end}}
@producname{stat}@producbody{@Rw{repeat} block @Rw{until} exp}
@producname{stat}@producbody{@Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
  @bnfopt{@Rw{else} block} @Rw{end}}
}
Lua also has a @Rw{for} statement, in two flavors @see{for}.

The @x{condition expression} of a
control structure can return any value.
Both @false and @nil are considered false.
All values different from @nil and @false are considered true
(in particular, the number 0 and the empty string are also true).

In the @Rw{repeat}@En@Rw{until} loop,
the inner block does not end at the @Rw{until} keyword,
but only after the condition.
So, the condition can refer to local variables
declared inside the loop block.

The @Rw{goto} statement transfers the program control to a label.
For syntactical reasons,
labels in Lua are considered
 statements too:
@index{goto statement}
@index{label}
@Produc{
@producname{stat}@producbody{@Rw{goto} Name}
@producname{stat}@producbody{label}
@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}
}

A label is visible in the entire block where it is defined,

except
inside nested blocks where a label with the same name is defined and
inside nested functions.
A goto may jump to any visible label as long as it does not
enter into the scope of a local variable.

Labels and empty statements are called @def{void statements},
as they perform no actions.

The @Rw{break} statement terminates the execution of a
@Rw{while}, @Rw{repeat}, or @Rw{for} loop,
skipping to the next statement after the loop:
@index{break statement}
@Produc{
@producname{stat}@producbody{@Rw{break}}
}
A @Rw{break} ends the innermost enclosing loop.

The @Rw{return} statement is used to return values
from a function or a chunk
(which is an anonymous function).
@index{return statement}
Functions can return more than
 one value,
so the syntax for the @Rw{return} statement is
@Produc{
@producname{stat}@producbody{@Rw{return} @bnfopt{explist} @bnfopt{@bnfter{;}}}
}

The @Rw{return} statement can only be written
as the last statement of a block.
If it is really necessary to @Rw{return} in the middle of a block,
then an explicit inner block can be used,
as in the idiom @T{do return end},
because now @Rw{return} is the last statement in its (inner) block.

}

@sect3{for| @title{For Statement}

@index{for statement}
The @Rw{for} statement has two forms:
one numerical and one generic.

The numerical @Rw{for} loop repeats a block of code while a
control variable runs through an arithmetic progression.
It has the following syntax:
@Produc{

```
@producname{stat}@producbody{@Rw{for} @bnfNter{Name} @bnfter{=}
 exp @bnfter{,} exp @bnfopt{@bnfter{,} exp} @Rw{do} block @Rw{end}}
}
The @emph{block} is repeated for @emph{name} starting at the value of
the first @emph{exp}, until it passes the second @emph{exp} by steps
 of the
third @emph{exp}.
More precisely, a @Rw{for} statement like
@verbatim{
for v = @rep{e1}, @rep{e2}, @rep{e3} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{var}, @rep{limit}, @rep{step} = tonumber(@rep{e1}), tonumber(@rep{e2}), tonumber(@rep{e3})
 if not (@rep{var} and @rep{limit} and @rep{step}) then error() end
 @rep{var} = @rep{var} - @rep{step}
 while true do
   @rep{var} = @rep{var} + @rep{step}
   if (@rep{step} >= 0 and @rep{var} > @rep{limit}) or (@rep{step} < 0 and @rep{var} < @rep{limit}) then
     break
   end
   local v = @rep{var}
   @rep{block}
 end
end
}

Note the following:
@itemize{

@item{
All three control expressions are evaluated only once,
before the loop starts.
They must all result in numbers.
}

@item{
@T{@rep{var}}, @T{@rep{limit}}, and @T{@rep{step}} are invisible variables.
The names shown here are for explanatory purposes only.
}

@item{
If the third expression (the step) is absent,
then a step @N{of 1} is used.
}

@item{
```

```
You
 can use @Rw{break} and @Rw{goto} to exit a @Rw{for} loop.
}

@item{
The loop variable @T{v} is local to the loop body.
If you need its value after the loop,
assign it to another variable before exiting the loop.
}

}

The generic @Rw{for} statement works over functions,
called @def{iterators}.
On each iteration, the iterator function is called to produce a new value,
stopping when this new value is @nil.
The generic @Rw{for} loop has the following syntax:
@Produc{
@producname{stat}@producbody{@Rw{for} namelist @Rw{in} explist
                @Rw{do} block @Rw{end}}
@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}
}
A @Rw{for} statement like
@verbatim{
for @rep{var_1}, @Cdots, @rep{var_n} in @rep{explist} do @rep{block} end
}
is equivalent to the code:
@verbatim{
do
 local @rep{f}, @rep{s}, @rep{var} = @rep{explist}
 while true do
   local @rep{var_1}, @Cdots, @rep{var_n} = @rep{f}(@rep{s}, @rep{var})
   if @rep{var_1} == nil then
 break end
   @rep{var} = @rep{var_1}
   @rep{block}
 end
end
}
Note the following:
@itemize{

@item{
@T{@rep{explist}} is evaluated only once.
Its results are an @emph{iterator} function,
a @emph{state},
and an initial value for the first @emph{iterator variable}.
}
```

```
@item{
@T{@rep{f}}, @T{@rep{s}}, and @T{@rep{var}} are invisible variables.
The names are here for explanatory purposes only.
}

@item{
You can use @Rw{break} to exit a @Rw{for} loop.
}

@item{
The loop variables @T{@rep{var_i}} are local to the loop;
you cannot use their values after the @Rw{for} ends.
If you need these values,
then assign them to other variables before breaking or exiting the loop.
}

}

}

@sect3{funcstat| @title{Function Calls as Statements}
To allow possible side-effects,
function calls can be executed as statements:
@Produc{
@producname{stat}@producbody{functioncall}
}
In this case, all returned values are thrown away.
Function calls are explained in @See{functioncall}.

}

@sect3{localvar| @title{Local
 Declarations}
@x{Local variables} can be declared anywhere inside a block.
The declaration can include an initial assignment:
@Produc{
@producname{stat}@producbody{@Rw{local} namelist @bnfopt{@bnfter{=} explist}}
}
If present, an initial assignment has the same semantics
of a multiple assignment @see{assignment}.
Otherwise, all variables are initialized with @nil.

A chunk is also a block @see{chunks},
and so local variables can be declared in a chunk outside any explicit block.

The visibility rules for local variables are explained in @See{visibility}.
```

```
}

}

@sect2{expressions| @title{Expressions}

The basic expressions in Lua are the following:
@Produc{
@producname{exp}@producbody{prefixexp}
@producname{exp}@producbody{@Rw{nil} @Or @Rw{false} @Or @Rw{true}}
@producname{exp}@producbody{@bnfNter{Numeral}}
@producname{exp}@producbody{@bnfNter{LiteralString}}
@producname{exp}@producbody{functiondef}
@producname{exp}@producbody{tableconstructor}
@producname{exp}@producbody{@bnfter{...}}
@producname{exp}@producbody{exp
 binop exp}
@producname{exp}@producbody{unop exp}
@producname{prefixexp}@producbody{var @Or functioncall @Or
                        @bnfter{(} exp @bnfter{)}}
}

Numerals and literal strings are explained in @See{lexical};
variables are explained in @See{variables};
function definitions are explained in @See{func-def};
function calls are explained in @See{functioncall};
table constructors are explained in @See{tableconstructor}.
Vararg expressions,
denoted by three dots (@Char{...}), can only be used when
directly inside a vararg function;
they are explained in @See{func-def}.

Binary operators comprise arithmetic operators @see{arith},
bitwise operators @see{bitwise},
relational operators @see{rel-ops}, logical operators @see{logic},
and the concatenation operator @see{concat}.
Unary operators comprise the unary minus @see{arith},
the unary bitwise NOT @see{bitwise},
the unary logical @Rw{not} @see{logic},
and the unary @def{length operator}
 @see{len-op}.

Both function calls and vararg expressions can result in multiple values.
If a function call is used as a statement @see{funcstat},
then its return list is adjusted to zero elements,
thus discarding all returned values.
If an expression is used as the last (or the only) element
of a list of expressions,
```

then no adjustment is made
(unless the expression is enclosed in parentheses).
In all other contexts,
Lua adjusts the result list to one element,
either discarding all values except the first one
or adding a single @nil if there are no values.

Here are some examples:
@verbatim{
```
f()              -- adjusted to 0 results
g(f(), x)        -- f() is adjusted to 1 result
g(x, f())        -- g gets x plus all results from f()
a,b,c = f(), x   -- f() is adjusted to 1 result (c gets nil)
a,b = ...        -- a gets the first vararg argument, b gets
                 -- the second (both a and b can get nil if there
                 -- is no corresponding vararg
 argument)

a,b,c = x, f()   -- f() is adjusted to 2 results
a,b,c = f()      -- f() is adjusted to 3 results
return f()       -- returns all results from f()
return ...       -- returns all received vararg arguments
return x,y,f()   -- returns x, y, and all results from f()
{f()}            -- creates a list with all results from f()
{...}            -- creates a list with all vararg arguments
{f(), nil}       -- f() is adjusted to 1 result
```
}

Any expression enclosed in parentheses always results in only one value.
Thus,
@T{(f(x,y,z))} is always a single value,
even if @id{f} returns several values.
(The value of @T{(f(x,y,z))} is the first value returned by @id{f}
or @nil if @id{f} does not return any values.)

@sect3{arith| @title{Arithmetic Operators}
Lua supports the following @x{arithmetic operators}:
@description{
@item{@T{+}|addition}
@item{@T{-}|subtraction}
@item{@T{*}|multiplication}
@item{@T{/}|float division}
@item{@T{//}|floor division}
@item{@T{%}|modulo}
@item{@T{^}|exponentiation}
@item{@T{-}|unary

minus}
}

With the exception of exponentiation and float division,
the arithmetic operators work as follows:
If both operands are integers,
the operation is performed over integers and the result is an integer.
Otherwise, if both operands are numbers
or strings that can be converted to
numbers @see{coercion},
then they are converted to floats,
the operation is performed following the usual rules
for floating-point arithmetic
(usually the @x{IEEE 754} standard),
and the result is a float.

Exponentiation and float division (@T{/})
always convert their operands to floats
and the result is always a float.
Exponentiation uses the @ANSI{pow},
so that it works for non-integer exponents too.

Floor division (@T{//}) is a division
that rounds the quotient towards minus infinity,
that is, the floor of the division of its operands.

Modulo is defined as the remainder of a division
that rounds the quotient towards minus infinity (floor division).

In
case of overflows in integer arithmetic,
all operations @emphx{wrap around},
according to the usual rules of two-complement arithmetic.
(In other words,
they return the unique representable integer
that is equal modulo @M{2@sp{64}} to the mathematical result.)
}

@sect3{bitwise| @title{Bitwise Operators}
Lua supports the following @x{bitwise operators}:
@description{
@item{@T{&}|bitwise AND}
@item{@T{@VerBar}|bitwise OR}
@item{@T{~}|bitwise exclusive OR}
@item{@T{>>}|right shift}
@item{@T{<<}|left shift}
@item{@T{~}|unary bitwise NOT}
}

All bitwise operations convert its operands to integers
@see{coercion},
operate on all bits of those integers,
and result in an integer.

Both right and left shifts fill the vacant bits with zeros.
Negative displacements shift to the other direction;
displacements with absolute values equal to or higher than
the number of bits in an integer
result in zero (as all bits are shifted out).

}

@sect3{coercion| @title{Coercions and Conversions}
Lua provides
some automatic conversions between some
types and representations at run time.
Bitwise operators always convert float operands to integers.
Exponentiation and float division
always convert integer operands to floats.
All other arithmetic operations applied to mixed numbers
(integers and floats) convert the integer operand to a float;
this is called the @def{usual rule}.
The C API also converts both integers to floats and
floats to integers, as needed.
Moreover, string concatenation accepts numbers as arguments,
besides strings.

Lua also converts strings to numbers,
whenever a number is expected.

In a conversion from integer to float,
if the integer value has an exact representation as a float,
that is the result.
Otherwise,
the conversion gets the nearest higher or
the nearest lower representable value.
This kind of conversion never fails.

The conversion from float to integer
checks whether the float has an exact representation as an integer
(that is, the float has an integral
value and
it is in the range of integer representation).
If it does, that representation is the result.
Otherwise, the conversion fails.

The conversion from strings to numbers goes as follows:
First, the string is converted to an integer or a float,
following its syntax and the rules of the Lua lexer.
(The string may have also leading and trailing spaces and a sign.)
Then, the resulting number (float or integer)
is converted to the type (float or integer) required by the context
(e.g., the operation that forced the conversion).

All conversions from strings to numbers
accept both a dot and the current locale mark
as the radix character.
(The Lua lexer, however, accepts only a dot.)

The conversion from numbers to strings uses a
non-specified human-readable format.
For complete control over how numbers are converted to strings,
use the @id{format} function from the string library
@seeF{string.format}.

}

@sect3{rel-ops| @title{Relational Operators}
Lua supports the following @x{relational
 operators}:
@description{
@item{@T{==}|equality}
@item{@T{~=}|inequality}
@item{@T{<}|less than}
@item{@T{>}|greater than}
@item{@T{<=}|less or equal}
@item{@T{>=}|greater or equal}
}
These operators always result in @false or @true.

Equality (@T{==}) first compares the type of its operands.
If the types are different, then the result is @false.
Otherwise, the values of the operands are compared.
Strings are compared in the obvious way.
Numbers are equal if they denote the same mathematical value.

Tables, userdata, and threads
are compared by reference:
two objects are considered equal only if they are the same object.
Every time you create a new object
(a table, userdata, or thread),
this new object is different from any previously existing object.
A closure is always equal to itself.
Closures with any detectable difference

(different behavior, different definition) are always different.
Closures created at different times but with no detectable differences
may be classified as
 equal or not
(depending on internal caching details).

You can change the way that Lua compares tables and userdata
by using the @Q{eq} metamethod @see{metatable}.

Equality comparisons do not convert strings to numbers
or vice versa.
Thus, @T{"0"==0} evaluates to @false,
and @T{t[0]} and @T{t["0"]} denote different
entries in a table.

The operator @T{~=} is exactly the negation of equality (@T{==}).

The order operators work as follows.
If both arguments are numbers,
then they are compared according to their mathematical values
(regardless of their subtypes).
Otherwise, if both arguments are strings,
then their values are compared according to the current locale.
Otherwise, Lua tries to call the @Q{lt} or the @Q{le}
metamethod @see{metatable}.
A comparison @T{a > b} is translated to @T{b < a}
and @T{a >= b} is translated to @T{b <= a}.

Following the @x{IEEE 754} standard,
@x{NaN} is considered neither smaller than,
nor equal to, nor greater than any value (including itself).

}

@sect3{logic|
 @title{Logical Operators}
The @x{logical operators} in Lua are
@Rw{and}, @Rw{or}, and @Rw{not}.
Like the control structures @see{control},
all logical operators consider both @false and @nil as false
and anything else as true.

The negation operator @Rw{not} always returns @false or @true.
The conjunction operator @Rw{and} returns its first argument
if this value is @false or @nil;
otherwise, @Rw{and} returns its second argument.
The disjunction operator @Rw{or} returns its first argument
if this value is different from @nil and @false;

otherwise, @Rw{or} returns its second argument.
Both @Rw{and} and @Rw{or} use @x{short-circuit evaluation};
that is,
the second operand is evaluated only if necessary.
Here are some examples:
@verbatim{
10 or 20 --> 10
10 or error() --> 10
nil or "a" --> "a"
nil and 10 --> nil
false and error() --> false
false and nil --> false
false or nil --> nil
10 and 20 --> 20
}
(In this manual,
@T{-->}
indicates the result of the preceding expression.)

}

@sect3{concat| @title{Concatenation}
The string @x{concatenation} operator in Lua is
denoted by two dots (@Char{..}).
If both operands are strings or numbers, then they are converted to
strings according to the rules described in @See{coercion}.
Otherwise, the @idx{__concat} metamethod is called @see{metatable}.

}

@sect3{len-op| @title{The Length Operator}

The length operator is denoted by the unary prefix operator @T{#}.

The length of a string is its number of bytes
(that is, the usual meaning of string length when each
character is one byte).

The length operator applied on a table
returns a @x{border} in that table.
A @def{border} in a table @id{t} is any natural number
that satisfies the following condition:
@verbatim{
(border == 0 or t[border] ~= nil) and t[border + 1] == nil
}
In words,
a border is any (natural) index in a table
where a non-nil value is followed by a nil value

(or zero, when index 1 is nil).

A
 table with exactly one border is called a @def{sequence}.
For instance, the table @T{{10, 20, 30, 40, 50}} is a sequence,
as it has only one border (5).
The table @T{{10, 20, 30, nil, 50}} has two borders (3 and 5),
and therefore it is not a sequence.
The table @T{{nil, 20, 30, nil, nil, 60, nil}}
has three borders (0, 3, and 6),
so it is not a sequence, too.
The table @T{{}} is a sequence with border 0.
Note that non-natural keys do not interfere
with whether a table is a sequence.

When @id{t} is a sequence,
@T{#t} returns its only border,
which corresponds to the intuitive notion of the length of the sequence.
When @id{t} is not a sequence,
@T{#t} can return any of its borders.
(The exact one depends on details of
the internal representation of the table,
which in turn can depend on how the table was populated and
the memory addresses of its non-numeric keys.)

The computation of the length of a table
has a guaranteed worst time of @M{O(log n)},
where @M{n} is the largest natural key
 in the table.

A program can modify the behavior of the length operator for
any value but strings through the @idx{__len} metamethod @see{metatable}.

}

@sect3{prec| @title{Precedence}
@x{Operator precedence} in Lua follows the table below,
from lower to higher priority:
@verbatim{
or
and
< > <= >= ~= ==
|
~
&
<< >>
..
+ -

```
*    /    //    %
unary operators (not   #    -    ~)
^
}
```

As usual,
you can use parentheses to change the precedences of an expression.
The concatenation (@Char{..}) and exponentiation (@Char{^})
operators are right associative.
All other binary operators are left associative.

}

@sect3{tableconstructor| @title{Table Constructors}
Table @x{constructors} are expressions that create tables.
Every time a constructor is evaluated, a new table is created.
A constructor can be used to create an empty table
or to create a table and initialize some of its fields.
The general syntax for constructors is

```
@Produc{
@producname{tableconstructor}@producbody{@bnfter{@Open}
 @bnfopt{fieldlist} @bnfter{@Close}}
@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}
@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or
            @bnfNter{Name} @bnfter{=} exp @Or exp}
@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}
}
```

Each field of the form @T{[exp1] = exp2} adds to the new table an entry
with key @id{exp1} and value @id{exp2}.
A field of the form @T{name = exp} is equivalent to
@T{["name"] = exp}.
Finally, fields of the form @id{exp} are equivalent to
@T{[i] = exp}, where @id{i} are consecutive integers
starting with 1.
Fields in the other formats do not affect this counting.
For example,

```
@verbatim{
a = { [f(1)] = g; "x", "y"; x = 1, f(x), [30] = 23; 45 }
}
```

is equivalent to

```
@verbatim{
do
 local t = {}
 t[f(1)] = g
 t[1] = "x"         -- 1st exp
 t[2] = "y"         -- 2nd exp
 t.x = 1            -- t["x"] = 1
 t[3] = f(x)        -- 3rd exp
```

```
 t[30] = 23
 t[4] = 45
        -- 4th exp
 a = t
end
}
```

The order of the assignments in a constructor is undefined.
(This order would be relevant only when there are repeated keys.)

If the last field in the list has the form @id{exp}
and the expression is a function call or a vararg expression,
then all values returned by this expression enter the list consecutively
@see{functioncall}.

The field list can have an optional trailing separator,
as a convenience for machine-generated code.

}

@sect3{functioncall| @title{Function Calls}
A @x{function call} in Lua has the following syntax:
@Produc{
@producname{functioncall}@producbody{prefixexp args}
}
In a function call,
first @bnfNter{prefixexp} and @bnfNter{args} are evaluated.
If the value of @bnfNter{prefixexp} has type @emph{function},
then this function is called
with the given arguments.
Otherwise, the @bnfNter{prefixexp} @Q{call} metamethod is called,
having as first argument the value of @bnfNter{prefixexp},
followed by the original call arguments
@see{metatable}.

The
 form
@Produc{
@producname{functioncall}@producbody{prefixexp @bnfter{:} @bnfNter{Name} args}
}
can be used to call @Q{methods}.
A call @T{v:name(@rep{args})}
is syntactic sugar for @T{v.name(v,@rep{args})},
except that @id{v} is evaluated only once.

Arguments have the following syntax:
@Produc{
@producname{args}@producbody{@bnfter{(} @bnfopt{explist} @bnfter{)}}

@producname{args}@producbody{tableconstructor}
@producname{args}@producbody{@bnfNter{LiteralString}}
}
All argument expressions are evaluated before the call.
A call of the form @T{f{@rep{fields}}} is
syntactic sugar for @T{f({@rep{fields}})};
that is, the argument list is a single new table.
A call of the form @T{f'@rep{string}'}
(or @T{f"@rep{string}"} or @T{f[[@rep{string}]]})
is syntactic sugar for @T{f('@rep{string}')};
that is, the argument list is a single literal string.

A call of the form @T{return @rep{functioncall}} is called
a @def{tail call}.
Lua implements @def{proper tail calls}
(or @emph{proper
 tail recursion}):
in a tail call,
the called function reuses the stack entry of the calling function.
Therefore, there is no limit on the number of nested tail calls that
a program can execute.
However, a tail call erases any debug information about the
calling function.
Note that a tail call only happens with a particular syntax,
where the @Rw{return} has one single function call as argument;
this syntax makes the calling function return exactly
the returns of the called function.
So, none of the following examples are tail calls:
@verbatim{
return (f(x)) -- results adjusted to 1
return 2 * f(x)
return x, f(x) -- additional results
f(x); return -- results discarded
return x or f(x) -- results adjusted to 1
}

}

@sect3{func-def| @title{Function Definitions}

The syntax for function definition is
@Produc{
@producname{functiondef}@producbody{@Rw{function} funcbody}
@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}
}

The

following syntactic sugar simplifies function definitions:
@Produc{
@producname{stat}@producbody{@Rw{function} funcname funcbody}
@producname{stat}@producbody{@Rw{local} @Rw{function} @bnfNter{Name} funcbody}
@producname{funcname}@producbody{@bnfNter{Name} @bnfrep{@bnfter{.} @bnfNter{Name}}
@bnfopt{@bnfter{:} @bnfNter{Name}}}
}
The statement
@verbatim{
function f () @rep{body} end
}
translates to
@verbatim{
f = function () @rep{body} end
}
The statement
@verbatim{
function t.a.b.c.f () @rep{body} end
}
translates to
@verbatim{
t.a.b.c.f = function () @rep{body} end
}
The statement
@verbatim{
local function f () @rep{body} end
}
translates to
@verbatim{
local f; f = function () @rep{body} end
}
not to
@verbatim{
local f = function () @rep{body} end
}
(This only makes a difference when the body of the function
contains references to @id{f}.)

A function definition is an executable expression,
whose value has type @emph{function}.
When Lua precompiles a chunk,
all its function bodies are
precompiled too.
Then, whenever Lua executes the function definition,
the function is @emph{instantiated} (or @emph{closed}).
This function instance (or @emphx{closure})
is the final value of the expression.

Parameters act as local variables that are
initialized with the argument values:
@Produc{
@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}} @Or
 @bnfter{...}}
}
When a function is called,
the list of @x{arguments} is adjusted to
the length of the list of parameters,
unless the function is a @def{vararg function},
which is indicated by three dots (@Char{...})
at the end of its parameter list.
A vararg function does not adjust its argument list;
instead, it collects all extra arguments and supplies them
to the function through a @def{vararg expression},
which is also written as three dots.
The value of this expression is a list of all actual extra arguments,
similar to a function with multiple results.
If a vararg expression is used inside another expression
or
 in the middle of a list of expressions,
then its return list is adjusted to one element.
If the expression is used as the last element of a list of expressions,
then no adjustment is made
(unless that last expression is enclosed in parentheses).

As an example, consider the following definitions:
@verbatim{
function f(a, b) end
function g(a, b, ...) end
function r() return 1,2,3 end
}
Then, we have the following mapping from arguments to parameters and
to the vararg expression:
@verbatim{
CALL PARAMETERS

f(3) a=3, b=nil
f(3, 4) a=3, b=4
f(3, 4, 5) a=3, b=4
f(r(), 10) a=1, b=10
f(r()) a=1, b=2

g(3) a=3, b=nil, ... --> (nothing)
g(3, 4) a=3, b=4, ... --> (nothing)
g(3, 4, 5, 8) a=3, b=4, ... --> 5 8
g(5, r()) a=5, b=1, ... --> 2 3

}

Results are returned using the @Rw{return} statement @see{control}.
If control reaches the end of a function
without encountering a @Rw{return} statement,
then
 the function returns with no results.

@index{multiple return}
There is a system-dependent limit on the number of values
that a function may return.
This limit is guaranteed to be larger than 1000.

The @emphx{colon} syntax
is used for defining @def{methods},
that is, functions that have an implicit extra parameter @idx{self}.
Thus, the statement
@verbatim{
function t.a.b.c:f (@rep{params}) @rep{body} end
}
is syntactic sugar for
@verbatim{
t.a.b.c.f = function (self, @rep{params}) @rep{body} end
}

}

}

@sect2{visibility| @title{Visibility Rules}

@index{visibility}
Lua is a lexically scoped language.
The scope of a local variable begins at the first statement after
its declaration and lasts until the last non-void statement
of the innermost block that includes the declaration.
Consider the following example:
@verbatim{
```
x = 10                -- global variable
do                    -- new block
 local x = x          -- new 'x', with value 10
 print(x)             --> 10
 x =
 x+1
 do                   -- another block
   local x = x+1      -- another 'x'
   print(x)           --> 12
 end
```

```
 print(x)          --> 11
end
print(x)           --> 10  (the global one)
}
```

Notice that, in a declaration like @T{local x = x},
the new @id{x} being declared is not in scope yet,
and so the second @id{x} refers to the outside variable.

Because of the @x{lexical scoping} rules,
local variables can be freely accessed by functions
defined inside their scope.
A local variable used by an inner function is called
an @def{upvalue}, or @emphx{external local variable},
inside the inner function.

Notice that each execution of a @Rw{local} statement
defines new local variables.
Consider the following example:

```
@verbatim{
a = {}
local x = 20
for i=1,10 do
 local y = 0
 a[i] = function () y=y+1; return x+y end
end
}
```

The loop creates ten closures
(that is, ten instances of the anonymous function).
Each of these closures uses a different @id{y} variable,
while all of them share
 the same @id{x}.

}

}

```
@C{-----------------------------------------------------------------------}
@sect1{API| @title{The Application Program Interface}

@index{C API}
```

This section describes the @N{C API} for Lua, that is,
the set of @N{C functions} available to the host program to communicate
with Lua.
All API functions and related types and constants
are declared in the header file @defid{lua.h}.

Even when we use the term @Q{function},
any facility in the API may be provided as a macro instead.
Except where stated otherwise,
all such macros use each of their arguments exactly once
(except for the first argument, which is always a Lua state),
and so do not generate any hidden side-effects.

As in most @N{C libraries},
the Lua API functions do not check their arguments for validity or consistency.
However, you can change this behavior by compiling Lua
with the macro @defid{LUA_USE_APICHECK} defined.

The Lua library is fully reentrant:
it has no global variables.
It keeps all information
it needs in a dynamic structure,
called the @def{Lua state}.

Each Lua state has one or more threads,
which correspond to independent, cooperative lines of execution.
The type @Lid{lua_State} (despite its name) refers to a thread.
(Indirectly, through the thread, it also refers to the
Lua state associated to the thread.)

A pointer to a thread must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch and returns a pointer
to the @emph{main thread} in the new state.

@sect2{@title{The Stack}

Lua uses a @emph{virtual stack} to pass values to and from C.
Each element in this stack represents a Lua value
(@nil, number, string, etc.).
Functions in the API can access this stack through the
Lua state parameter that they receive.

Whenever Lua calls C, the called function gets a new stack,
which is independent of previous stacks and of stacks of
@N{C functions} that are still active.
This stack initially
contains any arguments to the @N{C function}
and it is where the @N{C function} can store temporary
Lua values and must push its results
to be returned to the caller @seeC{lua_CFunction}.

For convenience,

most query operations in the API do not follow a strict stack discipline.
Instead, they can refer to any element in the stack
by using an @emph{index}:@index{index (API stack)}
A positive index represents an absolute stack position
(starting @N{at 1});
a negative index represents an offset relative to the top of the stack.
More specifically, if the stack has @rep{n} elements,
then @N{index 1} represents the first element
(that is, the element that was pushed onto the stack first)
and
@N{index @rep{n}} represents the last element;
@N{index @num{-1}} also represents the last element
(that is, the element at @N{the top})
and index @M{-n} represents the first element.

}

@sect2{stacksize| @title{Stack Size}

When you interact with the Lua API,
you are responsible for ensuring consistency.
In
particular,
@emph{you are responsible for controlling stack overflow}.
You can use the function @Lid{lua_checkstack}
to ensure that the stack has enough space for pushing new elements.

Whenever Lua calls C,
it ensures that the stack has space for
at least @defid{LUA_MINSTACK} extra slots.
@id{LUA_MINSTACK} is defined as 20,
so that usually you do not have to worry about stack space
unless your code has loops pushing elements onto the stack.

When you call a Lua function
without a fixed number of results @seeF{lua_call},
Lua ensures that the stack has enough space for all results,
but it does not ensure any extra space.
So, before pushing anything in the stack after such a call
you should use @Lid{lua_checkstack}.

}

@sect2{@title{Valid and Acceptable Indices}

Any function in the API that receives stack indices
works only with @emphx{valid indices} or @emphx{acceptable indices}.

A @def{valid index} is an index that refers to a
position that stores a modifiable Lua value.
It
 comprises stack indices @N{between 1} and the stack top
(@T{1 @leq abs(index) @leq top})
@index{stack index}
plus @def{pseudo-indices},
which represent some positions that are accessible to @N{C code}
but that are not in the stack.
Pseudo-indices are used to access the registry @see{registry}
and the upvalues of a @N{C function} @see{c-closure}.

Functions that do not need a specific mutable position,
but only a value (e.g., query functions),
can be called with acceptable indices.
An @def{acceptable index} can be any valid index,
but it also can be any positive index after the stack top
within the space allocated for the stack,
that is, indices up to the stack size.
(Note that 0 is never an acceptable index.)
Except when noted otherwise,
functions in the API work with acceptable indices.

Acceptable indices serve to avoid extra tests
against the stack top when querying the stack.
For instance, a @N{C function} can query its third argument
without the need to first check whether there
 is a third argument,
that is, without the need to check whether 3 is a valid index.

For functions that can be called with acceptable indices,
any non-valid index is treated as if it
contains a value of a virtual type @defid{LUA_TNONE},
which behaves like a nil value.

}

@sect2{c-closure| @title{C Closures}

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @def{@N{C closure}}
@seeC{lua_pushcclosure};
these values are called @def{upvalues} and are
accessible to the function whenever it is called.

Whenever a @N{C function} is called,
its upvalues are located at specific pseudo-indices.

These pseudo-indices are produced by the macro
@Lid{lua_upvalueindex}.
The first upvalue associated with a function is at index
@T{lua_upvalueindex(1)}, and so on.
Any access to @T{lua_upvalueindex(@rep{n})},
where @rep{n} is greater than the number of upvalues of the
current function
(but not greater than 256,
which is one plus the maximum number of upvalues
 in a closure),
produces an acceptable but invalid index.

}

@sect2{registry| @title{Registry}

Lua provides a @def{registry},
a predefined table that can be used by any @N{C code} to
store whatever Lua values it needs to store.
The registry table is always located at pseudo-index
@defid{LUA_REGISTRYINDEX}.
Any @N{C library} can store data into this table,
but it must take care to choose keys
that are different from those used
by other libraries, to avoid collisions.
Typically, you should use as key a string containing your library name,
or a light userdata with the address of a @N{C object} in your code,
or any Lua object created by your code.
As with variable names,
string keys starting with an underscore followed by
uppercase letters are reserved for Lua.

The integer keys in the registry are used
by the reference mechanism @seeC{luaL_ref}
and by some predefined values.
Therefore, integer keys must not be used for other purposes.

When you create a new Lua state,
its registry comes
 with some predefined values.
These predefined values are indexed with integer keys
defined as constants in @id{lua.h}.
The following constants are defined:
@description{
@item{@defid{LUA_RIDX_MAINTHREAD}| At this index the registry has
the main thread of the state.
(The main thread is the one created together with the state.)
}

@item{@defid{LUA_RIDX_GLOBALS}| At this index the registry has
the @x{global environment}.
}
}

}

@sect2{C-error|@title{Error Handling in C}

Internally, Lua uses the C @id{longjmp} facility to handle errors.
(Lua will use exceptions if you compile it as C++;
search for @id{LUAI_THROW} in the source code for details.)
When Lua faces any error
(such as a @x{memory allocation error} or a type error)
it @emph{raises} an error;
that is, it does a long jump.
A @emphx{protected environment} uses @id{setjmp}
to set a recovery point;
any error jumps to the most recent active recovery point.

Inside a @N{C function} you can raise an error by calling @Lid{lua_error}.

Most
functions in the API can raise an error,
for instance due to a @x{memory allocation error}.
The documentation for each function indicates whether
it can raise errors.

If an error happens outside any protected environment,
Lua calls a @def{panic function} (see @Lid{lua_atpanic})
and then calls @T{abort},
thus exiting the host application.
Your panic function can avoid this exit by
never returning
(e.g., doing a long jump to your own recovery point outside Lua).

The panic function,
as its name implies,
is a mechanism of last resort.
Programs should avoid it.
As a general rule,
when a @N{C function} is called by Lua with a Lua state,
it can do whatever it wants on that Lua state,
as it should be already protected.
However,
when C code operates on other Lua states
(e.g., a Lua argument to the function,

a Lua state stored in the registry, or
the result of @Lid{lua_newthread}),
it should use them only in API calls that cannot raise errors.

The panic function runs as if it were a
 @x{message handler} @see{error};
in particular, the error object is at the top of the stack.
However, there is no guarantee about stack space.
To push anything on the stack,
the panic function must first check the available space @see{stacksize}.

}

@sect2{continuations|@title{Handling Yields in C}

Internally, Lua uses the C @id{longjmp} facility to yield a coroutine.
Therefore, if a @N{C function} @id{foo} calls an API function
and this API function yields
(directly or indirectly by calling another function that yields),
Lua cannot return to @id{foo} any more,
because the @id{longjmp} removes its frame from the C stack.

To avoid this kind of problem,
Lua raises an error whenever it tries to yield across an API call,
except for three functions:
@Lid{lua_yieldk}, @Lid{lua_callk}, and @Lid{lua_pcallk}.
All those functions receive a @def{continuation function}
(as a parameter named @id{k}) to continue execution after a yield.

We need to set some terminology to explain continuations.
We
 have a @N{C function} called from Lua which we will call
the @emph{original function}.
This original function then calls one of those three functions in the C API,
which we will call the @emph{callee function},
that then yields the current thread.
(This can happen when the callee function is @Lid{lua_yieldk},
or when the callee function is either @Lid{lua_callk} or @Lid{lua_pcallk}
and the function called by them yields.)

Suppose the running thread yields while executing the callee function.
After the thread resumes,
it eventually will finish running the callee function.
However,
the callee function cannot return to the original function,
because its frame in the C stack was destroyed by the yield.
Instead, Lua calls a @def{continuation function},
which was given as an argument to the callee function.

As the name implies,
the continuation function should continue the task
of the original function.

As an illustration, consider the following function:
@verbatim{
```
int original_function
 (lua_State *L) {
 ...     /* code 1 */
 status = lua_pcall(L, n, m, h);  /* calls Lua */
 ...     /* code 2 */
}
```
}
Now we want to allow
the Lua code being run by @Lid{lua_pcall} to yield.
First, we can rewrite our function like here:
@verbatim{
```
int k (lua_State *L, int status, lua_KContext ctx) {
 ...  /* code 2 */
}

int original_function (lua_State *L) {
 ...     /* code 1 */
 return k(L, lua_pcall(L, n, m, h), ctx);
}
```
}
In the above code,
the new function @id{k} is a
@emph{continuation function} (with type @Lid{lua_KFunction}),
which should do all the work that the original function
was doing after calling @Lid{lua_pcall}.
Now, we must inform Lua that it must call @id{k} if the Lua code
being executed by @Lid{lua_pcall} gets interrupted in some way
(errors or yielding),
so we rewrite the code as here,
replacing @Lid{lua_pcall} by @Lid{lua_pcallk}:
@verbatim{
```
int original_function (lua_State *L) {
 ...     /* code 1 */
 return k(L, lua_pcallk(L, n, m, h, ctx2, k), ctx1);
}
```
}
Note
 the external, explicit call to the continuation:
Lua will call the continuation only if needed, that is,
in case of errors or resuming after a yield.
If the called function returns normally without ever yielding,
@Lid{lua_pcallk} (and @Lid{lua_callk}) will also return normally.

(Of course, instead of calling the continuation in that case,
you can do the equivalent work directly inside the original function.)

Besides the Lua state,
the continuation function has two other parameters:
the final status of the call plus the context value (@id{ctx}) that
was passed originally to @Lid{lua_pcallk}.
(Lua does not use this context value;
it only passes this value from the original function to the
continuation function.)
For @Lid{lua_pcallk},
the status is the same value that would be returned by @Lid{lua_pcallk},
except that it is @Lid{LUA_YIELD} when being executed after a yield
(instead of @Lid{LUA_OK}).
For @Lid{lua_yieldk} and @Lid{lua_callk},
the status is always @Lid{LUA_YIELD} when
Lua calls the continuation.
(For these two functions,
Lua will not call the continuation in case of errors,
because they do not handle errors.)
Similarly, when using @Lid{lua_callk},
you should call the continuation function
with @Lid{LUA_OK} as the status.
(For @Lid{lua_yieldk}, there is not much point in calling
directly the continuation function,
because @Lid{lua_yieldk} usually does not return.)

Lua treats the continuation function as if it were the original function.
The continuation function receives the same Lua stack
from the original function,
in the same state it would be if the callee function had returned.
(For instance,
after a @Lid{lua_callk} the function and its arguments are
removed from the stack and replaced by the results from the call.)
It also has the same upvalues.
Whatever it returns is handled by Lua as if it were the return
of the original function.

}

@sect2{@title{Functions and Types}

Here we list all functions and types from the @N{C API} in
alphabetical
order.
Each function has an indicator like this:
@apii{o,p,x}

The first field, @T{o},
is how many elements the function pops from the stack.
The second field, @T{p},
is how many elements the function pushes onto the stack.
(Any function always pushes its results after popping its arguments.)
A field in the form @T{x|y} means the function can push (or pop)
@T{x} or @T{y} elements,
depending on the situation;
an interrogation mark @Char{?} means that
we cannot know how many elements the function pops/pushes
by looking only at its arguments
(e.g., they may depend on what is on the stack).
The third field, @T{x},
tells whether the function may raise errors:
@Char{-} means the function never raises any error;
@Char{m} means the function may raise out-of-memory errors
and errors running a @idx{__gc} metamethod;
@Char{e} means the function may raise any errors
(it can run arbitrary Lua code,
either directly or through metamethods);
@Char{v} means the function may raise an error on purpose.

```
@APIEntry{int
 lua_absindex (lua_State *L, int idx);|
@apii{0,0,-}
```

Converts the @x{acceptable index} @id{idx}
into an equivalent @x{absolute index}
(that is, one that does not depend on the stack top).

}

```
@APIEntry{
typedef void * (*lua_Alloc) (void *ud,
                        void *ptr,
                        size_t osize,
                        size_t nsize);|
```

The type of the @x{memory-allocation function} used by Lua states.
The allocator function must provide a
functionality similar to @id{realloc},
but not exactly the same.
Its arguments are
@id{ud}, an opaque pointer passed to @Lid{lua_newstate};
@id{ptr}, a pointer to the block being allocated/reallocated/freed;
@id{osize}, the original size of the block or some code about what

is being allocated;
and @id{nsize}, the new size of the block.

When @id{ptr} is not @id{NULL},
@id{osize} is the size of the block pointed by @id{ptr},
that is, the size given when it was allocated or reallocated.

When @id{ptr} is
 @id{NULL},
@id{osize} encodes the kind of object that Lua is allocating.
@id{osize} is any of
@Lid{LUA_TSTRING}, @Lid{LUA_TTABLE}, @Lid{LUA_TFUNCTION},
@Lid{LUA_TUSERDATA}, or @Lid{LUA_TTHREAD} when (and only when)
Lua is creating a new object of that type.
When @id{osize} is some other value,
Lua is allocating memory for something else.

Lua assumes the following behavior from the allocator function:

When @id{nsize} is zero,
the allocator must behave like @id{free}
and return @id{NULL}.

When @id{nsize} is not zero,
the allocator must behave like @id{realloc}.
The allocator returns @id{NULL}
if and only if it cannot fulfill the request.
Lua assumes that the allocator never fails when
@T{osize >= nsize}.

Here is a simple implementation for the @x{allocator function}.
It is used in the auxiliary library by @Lid{luaL_newstate}.
@verbatim{
```
static void *l_alloc (void *ud, void *ptr, size_t osize,
                      size_t nsize) {
 (void)ud;  (void)osize;  /* not
 used */
 if (nsize == 0) {
   free(ptr);
   return NULL;
 }
 else
   return realloc(ptr, nsize);
}
```
}
Note that @N{Standard C} ensures
that @T{free(NULL)} has no effect and that
@T{realloc(NULL,size)} is equivalent to @T{malloc(size)}.

This code assumes that @id{realloc} does not fail when shrinking a block.
(Although @N{Standard C} does not ensure this behavior,
it seems to be a safe assumption.)

}

@APIEntry{void lua_arith (lua_State *L, int op);|
@apii{2|1,1,e}

Performs an arithmetic or bitwise operation over the two values
(or one, in the case of negations)
at the top of the stack,
with the value at the top being the second operand,
pops these values, and pushes the result of the operation.
The function follows the semantics of the corresponding Lua operator
(that is, it may call metamethods).

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPADD}| performs addition (@T{+})}
@item{@defid{LUA_OPSUB}| performs subtraction (@T{-})}
@item{@defid{LUA_OPMUL}|
 performs multiplication (@T{*})}
@item{@defid{LUA_OPDIV}| performs float division (@T{/})}
@item{@defid{LUA_OPIDIV}| performs floor division (@T{//})}
@item{@defid{LUA_OPMOD}| performs modulo (@T{%})}
@item{@defid{LUA_OPPOW}| performs exponentiation (@T{^})}
@item{@defid{LUA_OPUNM}| performs mathematical negation (unary @T{-})}
@item{@defid{LUA_OPBNOT}| performs bitwise NOT (@T{~})}
@item{@defid{LUA_OPBAND}| performs bitwise AND (@T{&})}
@item{@defid{LUA_OPBOR}| performs bitwise OR (@T{|})}
@item{@defid{LUA_OPBXOR}| performs bitwise exclusive OR (@T{~})}
@item{@defid{LUA_OPSHL}| performs left shift (@T{<<})}
@item{@defid{LUA_OPSHR}| performs right shift (@T{>>})}

}

}

@APIEntry{lua_CFunction lua_atpanic (lua_State *L, lua_CFunction panicf);|
@apii{0,0,-}

Sets a new panic function and returns the old one @see{C-error}.

}

@APIEntry{void lua_call (lua_State *L, int nargs, int nresults);|

@apii{nargs+1,nresults,e}

Calls a function.

To call a function you
must use the following protocol:
first, the function to be called is pushed onto the stack;
then, the arguments to the function are pushed
in direct order;
that is, the first argument is pushed first.
Finally you call @Lid{lua_call};
@id{nargs} is the number of arguments that you pushed onto the stack.
All arguments and the function value are popped from the stack
when the function is called.
The function results are pushed onto the stack when the function returns.
The number of results is adjusted to @id{nresults},
unless @id{nresults} is @defid{LUA_MULTRET}.
In this case, all results from the function are pushed;
Lua takes care that the returned values fit into the stack space,
but it does not ensure any extra space in the stack.
The function results are pushed onto the stack in direct order
(the first result is pushed first),
so that after the call the last result is on the top of the stack.

Any error inside the called function is propagated upwards
(with a @id{longjmp}).

The following
example shows how the host program can do the
equivalent to this Lua code:
@verbatim{
a = f("how", t.x, 14)
}
Here it is @N{in C}:
@verbatim{
lua_getglobal(L, "f"); /* function to be called */
lua_pushliteral(L, "how"); /* 1st argument */
lua_getglobal(L, "t"); /* table to be indexed */
lua_getfield(L, -1, "x"); /* push result of t.x (2nd arg) */
lua_remove(L, -2); /* remove 't' from the stack */
lua_pushinteger(L, 14); /* 3rd argument */
lua_call(L, 3, 1); /* call 'f' with 3 arguments and 1 result */
lua_setglobal(L, "a"); /* set global 'a' */
}
Note that the code above is @emph{balanced}:
at its end, the stack is back to its original configuration.
This is considered good programming practice.

```
}

@APIEntry{
void lua_callk (lua_State *L,
            int nargs,
            int nresults,
            lua_KContext ctx,
            lua_KFunction
 k);|
@apii{nargs + 1,nresults,e}

This function behaves exactly like @Lid{lua_call},
but allows the called function to yield @see{continuations}.

}

@APIEntry{typedef int (*lua_CFunction) (lua_State *L);|

Type for @N{C functions}.

In order to communicate properly with Lua,
a @N{C function} must use the following protocol,
which defines the way parameters and results are passed:
a @N{C function} receives its arguments from Lua in its stack
in direct order (the first argument is pushed first).
So, when the function starts,
@T{lua_gettop(L)} returns the number of arguments received by the function.
The first argument (if any) is at index 1
and its last argument is at index @T{lua_gettop(L)}.
To return values to Lua, a @N{C function} just pushes them onto the stack,
in direct order (the first result is pushed first),
and returns the number of results.
Any other value in the stack below the results will be properly
discarded by Lua.
Like a Lua function, a @N{C function} called
 by Lua can also return
many results.

As an example, the following function receives a variable number
of numeric arguments and returns their average and their sum:
@verbatim{
static int foo (lua_State *L) {
 int n = lua_gettop(L);    /* number of arguments */
 lua_Number sum = 0.0;
 int i;
 for (i = 1; i <= n; i++) {
   if (!lua_isnumber(L, i)) {
```

```
    lua_pushliteral(L, "incorrect argument");
    lua_error(L);
  }
  sum += lua_tonumber(L, i);
 }
 lua_pushnumber(L, sum/n);        /* first result */
 lua_pushnumber(L, sum);         /* second result */
 return 2;                   /* number of results */
}
}



}


@APIEntry{int lua_checkstack (lua_State *L, int n);|
@apii{0,0,-}

Ensures that the stack has space for at least @id{n} extra slots
(that is, that you can safely push up to @id{n} values into it).
It returns false if it cannot fulfill the request,
either because it would cause the stack
to be larger than a fixed maximum size
(typically at least several thousand
 elements) or
because it cannot allocate memory for the extra space.
This function never shrinks the stack;
if the stack already has space for the extra slots,
it is left unchanged.

}

@APIEntry{void lua_close (lua_State *L);|
@apii{0,0,-}

Destroys all objects in the given Lua state
(calling the corresponding garbage-collection metamethods, if any)
and frees all dynamic memory used by this state.
In several platforms, you may not need to call this function,
because all resources are naturally released when the host program ends.
On the other hand, long-running programs that create multiple states,
such as daemons or web servers,
will probably need to close states as soon as they are not needed.

}

@APIEntry{int lua_compare (lua_State *L, int index1, int index2, int op);|
```

```
@apii{0,0,e}

Compares two Lua values.
Returns 1 if the value at index @id{index1} satisfies @id{op}
when compared with the value at index @id{index2},
following the semantics of the corresponding Lua operator
(that
 is, it may call metamethods).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices is not valid.

The value of @id{op} must be one of the following constants:
@description{

@item{@defid{LUA_OPEQ}| compares for equality (@T{==})}
@item{@defid{LUA_OPLT}| compares for less than (@T{<})}
@item{@defid{LUA_OPLE}| compares for less or equal (@T{<=})}

}

}

@APIEntry{void lua_concat (lua_State *L, int n);|
@apii{n,1,e}

Concatenates the @id{n} values at the top of the stack,
pops them, and leaves the result at the top.
If @N{@T{n} is 1}, the result is the single value on the stack
(that is, the function does nothing);
if @id{n} is 0, the result is the empty string.
Concatenation is performed following the usual semantics of Lua
@see{concat}.

}

@APIEntry{void lua_copy (lua_State *L, int fromidx, int toidx);|
@apii{0,0,-}

Copies the element at index @id{fromidx}
into the valid index @id{toidx},
replacing the value at that position.
Values at other positions are not affected.

}

@APIEntry{void
 lua_createtable (lua_State *L, int narr, int nrec);|
@apii{0,1,m}
```

Creates a new empty table and pushes it onto the stack.
Parameter @id{narr} is a hint for how many elements the table
will have as a sequence;
parameter @id{nrec} is a hint for how many other elements
the table will have.
Lua may use these hints to preallocate memory for the new table.
This preallocation is useful for performance when you know in advance
how many elements the table will have.
Otherwise you can use the function @Lid{lua_newtable}.

}

```
@APIEntry{int lua_dump (lua_State *L,
                lua_Writer writer,
                void *data,
                int strip);|
@apii{0,0,-}
```

Dumps a function as a binary chunk.
Receives a Lua function on the top of the stack
and produces a binary chunk that,
if loaded again,
results in a function equivalent to the one dumped.
As it produces parts of the chunk,
@Lid{lua_dump} calls function @id{writer} @seeC{lua_Writer}
with the
given @id{data}
to write them.

If @id{strip} is true,
the binary representation may not include all debug information
about the function,
to save space.

The value returned is the error code returned by the last
call to the writer;
@N{0 means} no errors.

This function does not pop the Lua function from the stack.

}

```
@APIEntry{int lua_error (lua_State *L);|
@apii{1,0,v}
```

Generates a Lua error,
using the value at the top of the stack as the error object.

This function does a long jump,
and therefore never returns
@seeC{luaL_error}.

}

@APIEntry{int lua_gc (lua_State *L, int what, int data);|
@apii{0,0,m}

Controls the garbage collector.

This function performs several tasks,
according to the value of the parameter @id{what}:
@description{

@item{@id{LUA_GCSTOP}|
stops the garbage collector.
}

@item{@id{LUA_GCRESTART}|
restarts the garbage collector.
}

@item{@id{LUA_GCCOLLECT}|
performs a full garbage-collection cycle.
}

@item{@id{LUA_GCCOUNT}|
returns the current amount of memory
 (in Kbytes) in use by Lua.
}

@item{@id{LUA_GCCOUNTB}|
returns the remainder of dividing the current amount of bytes of
memory in use by Lua by 1024.
}

@item{@id{LUA_GCSTEP}|
performs an incremental step of garbage collection.
}

@item{@id{LUA_GCSETPAUSE}|
sets @id{data} as the new value
for the @emph{pause} of the collector @see{GC}
and returns the previous value of the pause.
}

@item{@id{LUA_GCSETSTEPMUL}|

sets @id{data} as the new value for the @emph{step multiplier} of
the collector @see{GC}
and returns the previous value of the step multiplier.
}

@item{@id{LUA_GCISRUNNING}|
returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

For more details about these options,
see @Lid{collectgarbage}.

}

@APIEntry{lua_Alloc lua_getallocf (lua_State *L, void **ud);|
@apii{0,0,-}

Returns the @x{memory-allocation function} of a given state.
If @id{ud} is not @id{NULL}, Lua stores in @T{*ud} the
opaque pointer given when the memory-allocator function was set.

}

@APIEntry{int
 lua_getfield (lua_State *L, int index, const char *k);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{void *lua_getextraspace (lua_State *L);|
@apii{0,0,-}

Returns a pointer to a raw memory area associated with the
given Lua state.
The application can use this area for any purpose;
Lua does not use it for anything.

Each new thread has this area initialized with a copy

of the area of the @x{main thread}.

By default, this area has the size of a pointer to void,
but you can recompile Lua with a different size for this area.
(See @id{LUA_EXTRASPACE} in @id{luaconf.h}.)

}

@APIEntry{int lua_getglobal (lua_State *L, const char *name);|
@apii{0,1,e}

Pushes onto the stack the value of the global @id{name}.
Returns the type of that value.

}

@APIEntry{int lua_geti (lua_State
 *L, int index, lua_Integer i);|
@apii{0,1,e}

Pushes onto the stack the value @T{t[i]},
where @id{t} is the value at the given index.
As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_getmetatable (lua_State *L, int index);|
@apii{0,0|1,-}

If the value at the given index has a metatable,
the function pushes that metatable onto the stack and @N{returns 1}.
Otherwise,
the function @N{returns 0} and pushes nothing on the stack.

}

@APIEntry{int lua_gettable (lua_State *L, int index);|
@apii{1,1,e}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the value at the given index
and @id{k} is the value at the top of the stack.

This function pops the key from the stack,
pushing the resulting value in its place.

As in Lua, this function may trigger a metamethod
for the @Q{index} event @see{metatable}.

Returns the type of the pushed value.

}

@APIEntry{int lua_gettop (lua_State
 *L);|
@apii{0,0,-}

Returns the index of the top element in the stack.
Because indices start @N{at 1},
this result is equal to the number of elements in the stack;
in particular, @N{0 means} an empty stack.

}

@APIEntry{int lua_getuservalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes onto the stack the Lua value associated with the full userdata
at the given index.

Returns the type of the pushed value.

}

@APIEntry{void lua_insert (lua_State *L, int index);|
@apii{1,1,-}

Moves the top element into the given valid index,
shifting up the elements above this index to open space.
This function cannot be called with a pseudo-index,
because a pseudo-index is not an actual stack position.

}

@APIEntry{typedef @ldots lua_Integer;|

The type of integers in Lua.

By default this type is @id{long long},
(usually a 64-bit two-complement integer),
but that can be changed to @id{long} or @id{int}
(usually a 32-bit two-complement integer).
(See @id{LUA_INT_TYPE} in @id{luaconf.h}.)

Lua also
defines the constants
@defid{LUA_MININTEGER} and @defid{LUA_MAXINTEGER},
with the minimum and the maximum values that fit in this type.

}

@APIEntry{int lua_isboolean (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a boolean,
and @N{0 otherwise}.

}

@APIEntry{int lua_iscfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a @N{C function},
and @N{0 otherwise}.

}

@APIEntry{int lua_isfunction (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a function
(either C or Lua), and @N{0 otherwise}.

}

@APIEntry{int lua_isinteger (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is an integer
(that is, the value is a number and is represented as an integer),
and @N{0 otherwise}.

}

@APIEntry{int lua_islightuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a light userdata,
and @N{0 otherwise}.

}

```
@APIEntry{int
 lua_isnil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnone (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnoneornil (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the given index is not valid
or if the value at this index is @nil,
and @N{0 otherwise}.

}

@APIEntry{int lua_isnumber (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a number
or a string convertible to a number,
and @N{0 otherwise}.

}

@APIEntry{int lua_isstring (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a string
or a number (which is always convertible to a string),
and @N{0 otherwise}.

}

@APIEntry{int lua_istable (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a table,
```

```
and @N{0 otherwise}.

}

@APIEntry{int
 lua_isthread (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a thread,
and @N{0 otherwise}.

}

@APIEntry{int lua_isuserdata (lua_State *L, int index);|
@apii{0,0,-}

Returns 1 if the value at the given index is a userdata
(either full or light), and @N{0 otherwise}.

}

@APIEntry{int lua_isyieldable (lua_State *L);|
@apii{0,0,-}

Returns 1 if the given coroutine can yield,
and @N{0 otherwise}.

}

@APIEntry{typedef @ldots lua_KContext;|

The type for continuation-function contexts.
It must be a numeric type.
This type is defined as @id{intptr_t}
when @id{intptr_t} is available,
so that it can store pointers too.
Otherwise, it is defined as @id{ptrdiff_t}.

}

@APIEntry{
typedef int (*lua_KFunction) (lua_State *L, int status, lua_KContext ctx);|

Type for continuation functions @see{continuations}.

}

@APIEntry{void lua_len (lua_State *L, int index);|
```

@apii{0,1,e}

Returns the length of the value at the given index.
It is equivalent to
 the @Char{#} operator in Lua @see{len-op} and
may trigger a metamethod for the @Q{length} event @see{metatable}.
The result is pushed on the stack.

}

@APIEntry{
int lua_load (lua_State *L,
        lua_Reader reader,
        void *data,
        const char *chunkname,
        const char *mode);|
@apii{0,1,-}

Loads a Lua chunk without running it.
If there are no errors,
@id{lua_load} pushes the compiled chunk as a Lua
function on top of the stack.
Otherwise, it pushes an error message.

The return values of @id{lua_load} are:
@description{

@item{@Lid{LUA_OK}| no errors;}

@item{@defid{LUA_ERRSYNTAX}|
syntax error during precompilation;}

@item{@Lid{LUA_ERRMEM}|
@x{memory allocation (out-of-memory) error};}

@item{@Lid{LUA_ERRGCMM}|
error while running a @idx{__gc} metamethod.
(This error has no relation with the chunk being loaded.
It is generated by the garbage collector.)
}

}

The @id{lua_load} function uses a user-supplied @id{reader} function
to read the
 chunk @seeC{lua_Reader}.
The @id{data} argument is an opaque value passed to the reader function.

The @id{chunkname} argument gives a name to the chunk,
which is used for error messages and in debug information @see{debugI}.

@id{lua_load} automatically detects whether the chunk is text or binary
and loads it accordingly (see program @idx{luac}).
The string @id{mode} works as in function @Lid{load},
with the addition that
a @id{NULL} value is equivalent to the string @St{bt}.

@id{lua_load} uses the stack internally,
so the reader function must always leave the stack
unmodified when returning.

If the resulting function has upvalues,
its first upvalue is set to the value of the @x{global environment}
stored at index @id{LUA_RIDX_GLOBALS} in the registry @see{registry}.
When loading main chunks,
this upvalue will be the @id{_ENV} variable @see{globalenv}.
Other upvalues are initialized with @nil.

}

@APIEntry{lua_State *lua_newstate (lua_Alloc f, void *ud);|
@apii{0,0,-}

Creates a new
 thread running in a new, independent state.
Returns @id{NULL} if it cannot create the thread or the state
(due to lack of memory).
The argument @id{f} is the @x{allocator function};
Lua does all memory allocation for this state
through this function @seeF{lua_Alloc}.
The second argument, @id{ud}, is an opaque pointer that Lua
passes to the allocator in every call.

}

@APIEntry{void lua_newtable (lua_State *L);|
@apii{0,1,m}

Creates a new empty table and pushes it onto the stack.
It is equivalent to @T{lua_createtable(L, 0, 0)}.

}

@APIEntry{lua_State *lua_newthread (lua_State *L);|
@apii{0,1,m}

Creates a new thread, pushes it on the stack,
and returns a pointer to a @Lid{lua_State} that represents this new thread.
The new thread returned by this function shares with the original thread
its global environment,
but has an independent execution stack.

There is no explicit function to close or to destroy a thread.
Threads are subject to garbage collection,
like any Lua object.

}

@APIEntry{void
 *lua_newuserdata (lua_State *L, size_t size);|
@apii{0,1,m}

This function allocates a new block of memory with the given size,
pushes onto the stack a new full userdata with the block address,
and returns this address.
The host program can freely use this memory.

}

@APIEntry{int lua_next (lua_State *L, int index);|
@apii{1,2|0,e}

Pops a key from the stack,
and pushes a key@En{}value pair from the table at the given index
(the @Q{next} pair after the given key).
If there are no more elements in the table,
then @Lid{lua_next} returns 0 (and pushes nothing).

A typical traversal looks like this:
@verbatim{
/* table is in the stack at index 't' */
lua_pushnil(L); /* first key */
while (lua_next(L, t) != 0) {
 /* uses 'key' (at index -2) and 'value' (at index -1) */
 printf("%s - %s\n",
        lua_typename(L, lua_type(L, -2)),
        lua_typename(L, lua_type(L, -1)));
 /* removes 'value'; keeps 'key' for next iteration */
 lua_pop(L, 1);
}
}

While traversing a table,
do

not call @Lid{lua_tolstring} directly on a key,
unless you know that the key is actually a string.
Recall that @Lid{lua_tolstring} may change
the value at the given index;
this confuses the next call to @Lid{lua_next}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@APIEntry{typedef @ldots lua_Number;|

The type of floats in Lua.

By default this type is double,
but that can be changed to a single float or a long double.
(See @id{LUA_FLOAT_TYPE} in @id{luaconf.h}.)

}

@APIEntry{int lua_numbertointeger (lua_Number n, lua_Integer *p);|

Converts a Lua float to a Lua integer.
This macro assumes that @id{n} has an integral value.
If that value is within the range of Lua integers,
it is converted to an integer and assigned to @T{*p}.
The macro results in a boolean indicating whether the
conversion was successful.
(Note that this range test can be tricky to do
correctly without this macro,
due to roundings.)

This macro may evaluate its arguments
more than once.

}

@APIEntry{int lua_pcall (lua_State *L, int nargs, int nresults, int msgh);|
@apii{nargs + 1,nresults|1,-}

Calls a function in protected mode.

Both @id{nargs} and @id{nresults} have the same meaning as
in @Lid{lua_call}.
If there are no errors during the call,
@Lid{lua_pcall} behaves exactly like @Lid{lua_call}.
However, if there is any error,

@Lid{lua_pcall} catches it,
pushes a single value on the stack (the error object),
and returns an error code.
Like @Lid{lua_call},
@Lid{lua_pcall} always removes the function
and its arguments from the stack.

If @id{msgh} is 0,
then the error object returned on the stack
is exactly the original error object.
Otherwise, @id{msgh} is the stack index of a
@emph{message handler}.
(This index cannot be a pseudo-index.)
In case of runtime errors,
this function will be called with the error object
and its return value will be the object
returned on the stack by @Lid{lua_pcall}.

Typically, the message handler is used to add
more debug
information to the error object, such as a stack traceback.
Such information cannot be gathered after the return of @Lid{lua_pcall},
since by then the stack has unwound.

The @Lid{lua_pcall} function returns one of the following constants
(defined in @id{lua.h}):
@description{

@item{@defid{LUA_OK} (0)|
success.}

@item{@defid{LUA_ERRRUN}|
a runtime error.
}

@item{@defid{LUA_ERRMEM}|
@x{memory allocation error}.
For such errors, Lua does not call the @x{message handler}.
}

@item{@defid{LUA_ERRERR}|
error while running the @x{message handler}.
}

@item{@defid{LUA_ERRGCMM}|
error while running a @idx{__gc} metamethod.
For such errors, Lua does not call the @x{message handler}
(as this kind of error typically has no relation

```
with the function being called).
}

}

}

@APIEntry{
int lua_pcallk (lua_State *L,
            int nargs,
            int nresults,
            int msgh,
            lua_KContext ctx,
            lua_KFunction k);|
@apii{nargs + 1,nresults|1,-}

This
 function behaves exactly like @Lid{lua_pcall},
but allows the called function to yield @see{continuations}.

}

@APIEntry{void lua_pop (lua_State *L, int n);|
@apii{n,0,-}

Pops @id{n} elements from the stack.

}

@APIEntry{void lua_pushboolean (lua_State *L, int b);|
@apii{0,1,-}

Pushes a boolean value with value @id{b} onto the stack.

}

@APIEntry{void lua_pushcclosure (lua_State *L, lua_CFunction fn, int n);|
@apii{n,1,m}

Pushes a new @N{C closure} onto the stack.

When a @N{C function} is created,
it is possible to associate some values with it,
thus creating a @x{@N{C closure}} @see{c-closure};
these values are then accessible to the function whenever it is called.
To associate values with a @N{C function},
first these values must be pushed onto the stack
(when there are multiple values, the first value is pushed first).
```

Then @Lid{lua_pushcclosure}
is called to create and push the @N{C function} onto the stack,
with the argument @id{n} telling how many values will
be
associated with the function.
@Lid{lua_pushcclosure} also pops these values from the stack.

The maximum value for @id{n} is 255.

When @id{n} is zero,
this function creates a @def{light @N{C function}},
which is just a pointer to the @N{C function}.
In that case, it never raises a memory error.

}

@APIEntry{void lua_pushcfunction (lua_State *L, lua_CFunction f);|
@apii{0,1,-}

Pushes a @N{C function} onto the stack.
This function receives a pointer to a @N{C function}
and pushes onto the stack a Lua value of type @id{function} that,
when called, invokes the corresponding @N{C function}.

Any function to be callable by Lua must
follow the correct protocol to receive its parameters
and return its results @seeC{lua_CFunction}.

}

@APIEntry{const char *lua_pushfstring (lua_State *L, const char *fmt, ...);|
@apii{0,1,e}

Pushes onto the stack a formatted string
and returns a pointer to this string.
It is similar to the @ANSI{sprintf},
but has some important differences:
@itemize{

@item{
You
do not have to allocate space for the result:
the result is a Lua string and Lua takes care of memory allocation
(and deallocation, through garbage collection).
}

@item{
The conversion specifiers are quite restricted.

There are no flags, widths, or precisions.
The conversion specifiers can only be
@Char{%%} (inserts the character @Char{%}),
@Char{%s} (inserts a zero-terminated string, with no size restrictions),
@Char{%f} (inserts a @Lid{lua_Number}),
@Char{%I} (inserts a @Lid{lua_Integer}),
@Char{%p} (inserts a pointer as a hexadecimal numeral),
@Char{%d} (inserts an @T{int}),
@Char{%c} (inserts an @T{int} as a one-byte character), and
@Char{%U} (inserts a @T{long int} as a @x{UTF-8} byte sequence).
}

}

Unlike other push functions,
this function checks for the stack space it needs,
including the slot for its result.

}

@APIEntry{void lua_pushglobaltable (lua_State *L);|
@apii{0,1,-}

Pushes the @x{global environment} onto the stack.

}

@APIEntry{void lua_pushinteger (lua_State
 *L, lua_Integer n);|
@apii{0,1,-}

Pushes an integer with value @id{n} onto the stack.

}

@APIEntry{void lua_pushlightuserdata (lua_State *L, void *p);|
@apii{0,1,-}

Pushes a light userdata onto the stack.

Userdata represent @N{C values} in Lua.
A @def{light userdata} represents a pointer, a @T{void*}.
It is a value (like a number):
you do not create it, it has no individual metatable,
and it is not collected (as it was never created).
A light userdata is equal to @Q{any}
light userdata with the same @N{C address}.

}

@APIEntry{const char *lua_pushliteral (lua_State *L, const char *s);|
@apii{0,1,m}

This macro is equivalent to @Lid{lua_pushstring},
but should be used only when @id{s} is a literal string.

}

@APIEntry{const char *lua_pushlstring (lua_State *L, const char *s, size_t len);|
@apii{0,1,m}

Pushes the string pointed to by @id{s} with size @id{len}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed
 or reused immediately after
the function returns.
The string can contain any binary data,
including @x{embedded zeros}.

Returns a pointer to the internal copy of the string.

}

@APIEntry{void lua_pushnil (lua_State *L);|
@apii{0,1,-}

Pushes a nil value onto the stack.

}

@APIEntry{void lua_pushnumber (lua_State *L, lua_Number n);|
@apii{0,1,-}

Pushes a float with value @id{n} onto the stack.

}

@APIEntry{const char *lua_pushstring (lua_State *L, const char *s);|
@apii{0,1,m}

Pushes the zero-terminated string pointed to by @id{s}
onto the stack.
Lua makes (or reuses) an internal copy of the given string,
so the memory at @id{s} can be freed or reused immediately after
the function returns.

Returns a pointer to the internal copy of the string.

If @id{s} is @id{NULL}, pushes @nil and returns @id{NULL}.

}

@APIEntry{int lua_pushthread (lua_State *L);|
@apii{0,1,-}

Pushes the thread represented by @id{L} onto the stack.
Returns 1 if this thread is the @x{main thread} of its state.

}

@APIEntry{void
 lua_pushvalue (lua_State *L, int index);|
@apii{0,1,-}

Pushes a copy of the element at the given index
onto the stack.

}

@APIEntry{
const char *lua_pushvfstring (lua_State *L,
                const char *fmt,
                va_list argp);|
@apii{0,1,m}

Equivalent to @Lid{lua_pushfstring}, except that it receives a @id{va_list}
instead of a variable number of arguments.

}

@APIEntry{int lua_rawequal (lua_State *L, int index1, int index2);|
@apii{0,0,-}

Returns 1 if the two values in indices @id{index1} and
@id{index2} are primitively equal
(that is, without calling the @idx{__eq} metamethod).
Otherwise @N{returns 0}.
Also @N{returns 0} if any of the indices are not valid.

}

@APIEntry{int lua_rawget (lua_State *L, int index);|
@apii{1,1,-}

Similar to @Lid{lua_gettable}, but does a raw access
(i.e., without metamethods).

}

@APIEntry{int lua_rawgeti (lua_State *L, int index, lua_Integer n);|
@apii{0,1,-}

Pushes onto the stack the
 value @T{t[n]},
where @id{t} is the table at the given index.
The access is raw,
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{int lua_rawgetp (lua_State *L, int index, const void *p);|
@apii{0,1,-}

Pushes onto the stack the value @T{t[k]},
where @id{t} is the table at the given index and
@id{k} is the pointer @id{p} represented as a light userdata.
The access is raw;
that is, it does not invoke the @idx{__index} metamethod.

Returns the type of the pushed value.

}

@APIEntry{size_t lua_rawlen (lua_State *L, int index);|
@apii{0,0,-}

Returns the raw @Q{length} of the value at the given index:
for strings, this is the string length;
for tables, this is the result of the length operator (@Char{#})
with no metamethods;
for userdata, this is the size of the block of memory allocated
for the userdata;
for other values, it @N{is 0}.

}

@APIEntry{void lua_rawset (lua_State *L, int index);|
@apii{2,0,m}

```
Similar to @Lid{lua_settable},
 but does a raw assignment
(i.e., without metamethods).

}

@APIEntry{void lua_rawseti (lua_State *L, int index, lua_Integer i);|
@apii{1,0,m}

Does the equivalent of @T{t[i] = v},
where @id{t} is the table at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke the @idx{__newindex} metamethod.

}

@APIEntry{void lua_rawsetp (lua_State *L, int index, const void *p);|
@apii{1,0,m}

Does the equivalent of @T{t[p] = v},
where @id{t} is the table at the given index,
@id{p} is encoded as a light userdata,
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
The assignment is raw,
that is, it does not invoke @idx{__newindex} metamethod.

}

@APIEntry{
typedef const char * (*lua_Reader) (lua_State *L,
                                    void *data,
                                    size_t *size);|

The reader function used by @Lid{lua_load}.
Every
 time it needs another piece of the chunk,
@Lid{lua_load} calls the reader,
passing along its @id{data} parameter.
The reader must return a pointer to a block of memory
with a new piece of the chunk
and set @id{size} to the block size.
The block must exist until the reader function is called again.
To signal the end of the chunk,
```

the reader must return @id{NULL} or set @id{size} to zero.
The reader function may return pieces of any size greater than zero.

}

@APIEntry{void lua_register (lua_State *L, const char *name, lua_CFunction f);|
@apii{0,0,e}

Sets the @N{C function} @id{f} as the new value of global @id{name}.
It is defined as a macro:
@verbatim{
#define lua_register(L,n,f) \
    (lua_pushcfunction(L, f), lua_setglobal(L, n))
}

}

@APIEntry{void lua_remove (lua_State *L, int index);|
@apii{1,0,-}

Removes the element at the given valid index,
shifting down the elements above this index to fill the gap.
This function cannot be called with a pseudo-index,
because
 a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_replace (lua_State *L, int index);|
@apii{1,0,-}

Moves the top element into the given valid index
without shifting any element
(therefore replacing the value at that given index),
and then pops the top element.

}

@APIEntry{int lua_resume (lua_State *L, lua_State *from, int nargs);|
@apii{?,?,-}

Starts and resumes a coroutine in the given thread @id{L}.

To start a coroutine,
you push onto the thread stack the main function plus any arguments;
then you call @Lid{lua_resume},
with @id{nargs} being the number of arguments.
This call returns when the coroutine suspends or finishes its execution.

When it returns, the stack contains all values passed to @Lid{lua_yield},
or all values returned by the body function.
@Lid{lua_resume} returns
@Lid{LUA_YIELD} if the coroutine yields,
@Lid{LUA_OK} if the coroutine finishes its execution
without errors,
or an error code in case of errors @seeC{lua_pcall}.

In case of errors,
the
 stack is not unwound,
so you can use the debug API over it.
The error object is on the top of the stack.

To resume a coroutine,
you remove any results from the last @Lid{lua_yield},
put on its stack only the values to
be passed as results from @id{yield},
and then call @Lid{lua_resume}.

The parameter @id{from} represents the coroutine that is resuming @id{L}.
If there is no such coroutine,
this parameter can be @id{NULL}.

}

@APIEntry{void lua_rotate (lua_State *L, int idx, int n);|
@apii{0,0,-}

Rotates the stack elements between the valid index @id{idx}
and the top of the stack.
The elements are rotated @id{n} positions in the direction of the top,
for a positive @id{n},
or @T{-n} positions in the direction of the bottom,
for a negative @id{n}.
The absolute value of @id{n} must not be greater than the size
of the slice being rotated.
This function cannot be called with a pseudo-index,
because a pseudo-index is not an actual stack position.

}

@APIEntry{void lua_setallocf
 (lua_State *L, lua_Alloc f, void *ud);|
@apii{0,0,-}

Changes the @x{allocator function} of a given state to @id{f}
with user data @id{ud}.

```
}

@APIEntry{void lua_setfield (lua_State *L, int index, const char *k);|
@apii{1,0,e}

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_setglobal (lua_State *L, const char *name);|
@apii{1,0,e}

Pops a value from the stack and
sets it as the new value of global @id{name}.

}

@APIEntry{void lua_seti (lua_State *L, int index, lua_Integer n);|
@apii{1,0,e}

Does the equivalent to @T{t[n] = v},
where @id{t} is the value at the given index
and @id{v} is the value at the top of the stack.

This function pops the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event
 @see{metatable}.

}

@APIEntry{void lua_setmetatable (lua_State *L, int index);|
@apii{1,0,-}

Pops a table from the stack and
sets it as the new metatable for the value at the given index.

}

@APIEntry{void lua_settable (lua_State *L, int index);|
@apii{2,0,e}
```

Does the equivalent to @T{t[k] = v},
where @id{t} is the value at the given index,
@id{v} is the value at the top of the stack,
and @id{k} is the value just below the top.

This function pops both the key and the value from the stack.
As in Lua, this function may trigger a metamethod
for the @Q{newindex} event @see{metatable}.

}

@APIEntry{void lua_settop (lua_State *L, int index);|
@apii{?,?,-}

Accepts any index, @N{or 0},
and sets the stack top to this index.
If the new top is larger than the old one,
then the new elements are filled with @nil.
If @id{index} @N{is 0}, then all stack elements are removed.

}

@APIEntry{void lua_setuservalue (lua_State *L, int index);|
@apii{1,0,-}

Pops a value from the stack and sets it as
the
 new value associated to the full userdata at the given index.

}

@APIEntry{typedef struct lua_State lua_State;|

An opaque structure that points to a thread and indirectly
(through the thread) to the whole state of a Lua interpreter.
The Lua library is fully reentrant:
it has no global variables.
All information about a state is accessible through this structure.

A pointer to this structure must be passed as the first argument to
every function in the library, except to @Lid{lua_newstate},
which creates a Lua state from scratch.

}

@APIEntry{int lua_status (lua_State *L);|
@apii{0,0,-}

Returns the status of the thread @id{L}.

The status can be 0 (@Lid{LUA_OK}) for a normal thread,
an error code if the thread finished the execution
of a @Lid{lua_resume} with an error,
or @defid{LUA_YIELD} if the thread is suspended.

You can only call functions in threads with status @Lid{LUA_OK}.
You can resume threads with status @Lid{LUA_OK}
(to start a new coroutine) or @Lid{LUA_YIELD}
(to
 resume a coroutine).

}

@APIEntry{size_t lua_stringtonumber (lua_State *L, const char *s);|
@apii{0,1,-}

Converts the zero-terminated string @id{s} to a number,
pushes that number into the stack,
and returns the total size of the string,
that is, its length plus one.
The conversion can result in an integer or a float,
according to the lexical conventions of Lua @see{lexical}.
The string may have leading and trailing spaces and a sign.
If the string is not a valid numeral,
returns 0 and pushes nothing.
(Note that the result can be used as a boolean,
true if the conversion succeeds.)

}

@APIEntry{int lua_toboolean (lua_State *L, int index);|
@apii{0,0,-}

Converts the Lua value at the given index to a @N{C boolean}
value (@N{0 or 1}).
Like all tests in Lua,
@Lid{lua_toboolean} returns true for any Lua value
different from @false and @nil;
otherwise it returns false.
(If you want to accept only actual boolean values,
use @Lid{lua_isboolean} to test the value's type.)

}

@APIEntry{lua_CFunction

```
 lua_tocfunction (lua_State *L, int index);|
@apii{0,0,-}

Converts a value at the given index to a @N{C function}.
That value must be a @N{C function};
otherwise, returns @id{NULL}.

}

@APIEntry{lua_Integer lua_tointeger (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tointegerx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Integer lua_tointegerx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the signed integral type @Lid{lua_Integer}.
The Lua value must be an integer,
or a number or string convertible to an integer @see{coercion};
otherwise, @id{lua_tointegerx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const char *lua_tolstring (lua_State *L, int index, size_t *len);|
@apii{0,0,m}

Converts the Lua value at the given index to a @N{C string}.
If @id{len} is not @id{NULL},
it sets @T{*len}
 with the string length.
The Lua value must be a string or a number;
otherwise, the function returns @id{NULL}.
If the value is a number,
then @id{lua_tolstring} also
@emph{changes the actual value in the stack to a string}.
(This change confuses @Lid{lua_next}
when @id{lua_tolstring} is applied to keys during a table traversal.)

@id{lua_tolstring} returns a pointer
to a string inside the Lua state.
```

This string always has a zero (@Char{\0})
after its last character (as @N{in C}),
but can contain other zeros in its body.

Because Lua has garbage collection,
there is no guarantee that the pointer returned by @id{lua_tolstring}
will be valid after the corresponding Lua value is removed from the stack.

}

@APIEntry{lua_Number lua_tonumber (lua_State *L, int index);|
@apii{0,0,-}

Equivalent to @Lid{lua_tonumberx} with @id{isnum} equal to @id{NULL}.

}

@APIEntry{lua_Number lua_tonumberx (lua_State *L, int index, int *isnum);|
@apii{0,0,-}

Converts the Lua value at the given index
to the
 @N{C type} @Lid{lua_Number} @seeC{lua_Number}.
The Lua value must be a number or a string convertible to a number
@see{coercion};
otherwise, @Lid{lua_tonumberx} @N{returns 0}.

If @id{isnum} is not @id{NULL},
its referent is assigned a boolean value that
indicates whether the operation succeeded.

}

@APIEntry{const void *lua_topointer (lua_State *L, int index);|
@apii{0,0,-}

Converts the value at the given index to a generic
@N{C pointer} (@T{void*}).
The value can be a userdata, a table, a thread, or a function;
otherwise, @id{lua_topointer} returns @id{NULL}.
Different objects will give different pointers.
There is no way to convert the pointer back to its original value.

Typically this function is used only for hashing and debug information.

}

@APIEntry{const char *lua_tostring (lua_State *L, int index);|

@apii{0,0,m}

Equivalent to @Lid{lua_tolstring} with @id{len} equal to @id{NULL}.

}

@APIEntry{lua_State *lua_tothread (lua_State *L, int index);|
@apii{0,0,-}

Converts the
 value at the given index to a Lua thread
(represented as @T{lua_State*}).
This value must be a thread;
otherwise, the function returns @id{NULL}.

}

@APIEntry{void *lua_touserdata (lua_State *L, int index);|
@apii{0,0,-}

If the value at the given index is a full userdata,
returns its block address.
If the value is a light userdata,
returns its pointer.
Otherwise, returns @id{NULL}.

}

@APIEntry{int lua_type (lua_State *L, int index);|
@apii{0,0,-}

Returns the type of the value in the given valid index,
or @id{LUA_TNONE} for a non-valid (but acceptable) index.
The types returned by @Lid{lua_type} are coded by the following constants
defined in @id{lua.h}:
@defid{LUA_TNIL} (0),
@defid{LUA_TNUMBER},
@defid{LUA_TBOOLEAN},
@defid{LUA_TSTRING},
@defid{LUA_TTABLE},
@defid{LUA_TFUNCTION},
@defid{LUA_TUSERDATA},
@defid{LUA_TTHREAD},
and
@defid{LUA_TLIGHTUSERDATA}.

}

```
@APIEntry{const char *lua_typename (lua_State *L, int tp);|
@apii{0,0,-}

Returns the name of the type encoded by the value
 @id{tp},
which must be one the values returned by @Lid{lua_type}.

}

@APIEntry{typedef @ldots lua_Unsigned;|

The unsigned version of @Lid{lua_Integer}.

}

@APIEntry{int lua_upvalueindex (int i);|
@apii{0,0,-}

Returns the pseudo-index that represents the @id{i}-th upvalue of
the running function @see{c-closure}.

}

@APIEntry{const lua_Number *lua_version (lua_State *L);|
@apii{0,0,-}

Returns the address of the version number
(a C static variable)
stored in the Lua core.
When called with a valid @Lid{lua_State},
returns the address of the version used to create that state.
When called with @id{NULL},
returns the address of the version running the call.

}

@APIEntry{
typedef int (*lua_Writer) (lua_State *L,
                    const void* p,
                    size_t sz,
                    void* ud);|

The type of the writer function used by @Lid{lua_dump}.
Every time it produces another piece of chunk,
@Lid{lua_dump} calls the writer,
passing along the buffer
 to be written (@id{p}),
its size (@id{sz}),
```

and the @id{data} parameter supplied to @Lid{lua_dump}.

The writer returns an error code:
@N{0 means} no errors;
any other value means an error and stops @Lid{lua_dump} from
calling the writer again.

}

@APIEntry{void lua_xmove (lua_State *from, lua_State *to, int n);|
@apii{?,?,-}

Exchange values between different threads of the same state.

This function pops @id{n} values from the stack @id{from},
and pushes them onto the stack @id{to}.

}

@APIEntry{int lua_yield (lua_State *L, int nresults);|
@apii{?,?,e}

This function is equivalent to @Lid{lua_yieldk},
but it has no continuation @see{continuations}.
Therefore, when the thread resumes,
it continues the function that called
the function calling @id{lua_yield}.

}

@APIEntry{
int lua_yieldk (lua_State *L,
	int nresults,
	lua_KContext ctx,
	lua_KFunction k);|
@apii{?,?,e}

Yields a coroutine (thread).

When a @N{C function} calls @Lid{lua_yieldk},
the
 running coroutine suspends its execution,
and the call to @Lid{lua_resume} that started this coroutine returns.
The parameter @id{nresults} is the number of values from the stack
that will be passed as results to @Lid{lua_resume}.

When the coroutine is resumed again,

Lua calls the given @x{continuation function} @id{k} to continue
the execution of the @N{C function} that yielded @see{continuations}.
This continuation function receives the same stack
from the previous function,
with the @id{n} results removed and
replaced by the arguments passed to @Lid{lua_resume}.
Moreover,
the continuation function receives the value @id{ctx}
that was passed to @Lid{lua_yieldk}.

Usually, this function does not return;
when the coroutine eventually resumes,
it continues executing the continuation function.
However, there is one special case,
which is when this function is called
from inside a line or a count hook @see{debugI}.
In that case, @id{lua_yieldk} should be called with no continuation
(probably
 in the form of @Lid{lua_yield}) and no results,
and the hook should return immediately after the call.
Lua will yield and,
when the coroutine resumes again,
it will continue the normal execution
of the (Lua) function that triggered the hook.

This function can raise an error if it is called from a thread
with a pending C call with no continuation function,
or it is called from a thread that is not running inside a resume
(e.g., the main thread).

}

}

@sect2{debugI| @title{The Debug Interface}

Lua has no built-in debugging facilities.
Instead, it offers a special interface
by means of functions and @emph{hooks}.
This interface allows the construction of different
kinds of debuggers, profilers, and other tools
that need @Q{inside information} from the interpreter.

@APIEntry{
typedef struct lua_Debug {
 int event;
 const char *name;	/* (n) */

```
 const char *namewhat;       /* (n) */
 const char *what;           /* (S) */
 const char *source;         /*
 (S) */
 int currentline;            /* (l) */
 int linedefined;            /* (S) */
 int lastlinedefined;        /* (S) */
 unsigned char nups;         /* (u) number of upvalues */
 unsigned char nparams;      /* (u) number of parameters */
 char isvararg;              /* (u) */
 char istailcall;            /* (t) */
 char short_src[LUA_IDSIZE]; /* (S) */
 /* private part */
 @rep{other fields}
} lua_Debug;
|
```

A structure used to carry different pieces of
information about a function or an activation record.
@Lid{lua_getstack} fills only the private part
of this structure, for later use.
To fill the other fields of @Lid{lua_Debug} with useful information,
call @Lid{lua_getinfo}.

The fields of @Lid{lua_Debug} have the following meaning:
@description{

@item{@id{source}|
the name of the chunk that created the function.
If @T{source} starts with a @Char{@At},
it means that the function was defined in a file where
the file name follows the @Char{@At}.
If @T{source} starts with
 a @Char{=},
the remainder of its contents describe the source in a user-dependent manner.
Otherwise,
the function was defined in a string where
@T{source} is that string.
}

@item{@id{short_src}|
a @Q{printable} version of @T{source}, to be used in error messages.
}

@item{@id{linedefined}|
the line number where the definition of the function starts.
}

@item{@id{lastlinedefined}|
the line number where the definition of the function ends.
}

@item{@id{what}|
the string @T{"Lua"} if the function is a Lua function,
@T{"C"} if it is a @N{C function},
@T{"main"} if it is the main part of a chunk.
}

@item{@id{currentline}|
the current line where the given function is executing.
When no line information is available,
@T{currentline} is set to @num{-1}.
}

@item{@id{name}|
a reasonable name for the given function.
Because functions in Lua are first-class values,
they do not have a fixed name:
some functions can be the value of multiple global variables,
while others can be stored only in a table
field.
The @T{lua_getinfo} function checks how the function was
called to find a suitable name.
If it cannot find a name,
then @id{name} is set to @id{NULL}.
}

@item{@id{namewhat}|
explains the @T{name} field.
The value of @T{namewhat} can be
@T{"global"}, @T{"local"}, @T{"method"},
@T{"field"}, @T{"upvalue"}, or @T{""} (the empty string),
according to how the function was called.
(Lua uses the empty string when no other option seems to apply.)
}

@item{@id{istailcall}|
true if this function invocation was called by a tail call.
In this case, the caller of this level is not in the stack.
}

@item{@id{nups}|
the number of upvalues of the function.
}

@item{@id{nparams}|

the number of fixed parameters of the function
(always @N{0 for} @N{C functions}).
}

@item{@id{isvararg}|
true if the function is a vararg function
(always true for @N{C functions}).
}

}

}

@APIEntry{lua_Hook lua_gethook (lua_State *L);|
@apii{0,0,-}

Returns the current hook function.

}

@APIEntry{int lua_gethookcount
 (lua_State *L);|
@apii{0,0,-}

Returns the current hook count.

}

@APIEntry{int lua_gethookmask (lua_State *L);|
@apii{0,0,-}

Returns the current hook mask.

}

@APIEntry{int lua_getinfo (lua_State *L, const char *what, lua_Debug *ar);|
@apii{0|1,0|1|2,e}

Gets information about a specific function or function invocation.

To get information about a function invocation,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.

To get information about a function, you push it onto the stack
and start the @id{what} string with the character @Char{>}.
(In that case,

@id{lua_getinfo} pops the function from the top of the stack.)
For instance, to know in which line a function @id{f} was defined,
you can write the following code:
@verbatim{
lua_Debug ar;
lua_getglobal(L, "f"); /* get global 'f' */
lua_getinfo(L, ">S", &ar);
printf("%d\n", ar.linedefined);
}

Each character in the
 string @id{what}
selects some fields of the structure @id{ar} to be filled or
a value to be pushed on the stack:
@description{

@item{@Char{n}| fills in the field @id{name} and @id{namewhat};
}

@item{@Char{S}|
fills in the fields @id{source}, @id{short_src},
@id{linedefined}, @id{lastlinedefined}, and @id{what};
}

@item{@Char{l}| fills in the field @id{currentline};
}

@item{@Char{t}| fills in the field @id{istailcall};
}

@item{@Char{u}| fills in the fields
@id{nups}, @id{nparams}, and @id{isvararg};
}

@item{@Char{f}|
pushes onto the stack the function that is
running at the given level;
}

@item{@Char{L}|
pushes onto the stack a table whose indices are the
numbers of the lines that are valid on the function.
(A @emph{valid line} is a line with some associated code,
that is, a line where you can put a break point.
Non-valid lines include empty lines and comments.)

If this option is given together with option @Char{f},
its table is pushed after the function.

}

}

This function
returns 0 on error
(for instance, an invalid option in @id{what}).

}

@APIEntry{const char *lua_getlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0,0|1,-}

Gets information about a local variable of
a given activation record or a given function.

In the first case,
the parameter @id{ar} must be a valid activation record that was
filled by a previous call to @Lid{lua_getstack} or
given as argument to a hook @seeC{lua_Hook}.
The index @id{n} selects which local variable to inspect;
see @Lid{debug.getlocal} for details about variable indices
and names.

@Lid{lua_getlocal} pushes the variable's value onto the stack
and returns its name.

In the second case, @id{ar} must be @id{NULL} and the function
to be inspected must be at the top of the stack.
In this case, only parameters of Lua functions are visible
(as there is no information about what variables are active)
and no values are pushed onto the stack.

Returns @id{NULL} (and pushes nothing)
when the index is greater than
the
number of active local variables.

}

@APIEntry{int lua_getstack (lua_State *L, int level, lua_Debug *ar);|
@apii{0,0,-}

Gets information about the interpreter runtime stack.

This function fills parts of a @Lid{lua_Debug} structure with
an identification of the @emph{activation record}
of the function executing at a given level.

@N{Level 0} is the current running function,
whereas level @M{n+1} is the function that has called level @M{n}
(except for tail calls, which do not count on the stack).
When there are no errors, @Lid{lua_getstack} returns 1;
when called with a level greater than the stack depth,
it returns 0.

}

@APIEntry{const char *lua_getupvalue (lua_State *L, int funcindex, int n);|
@apii{0,0|1,-}

Gets information about the @id{n}-th upvalue
of the closure at index @id{funcindex}.
It pushes the upvalue's value onto the stack
and returns its name.
Returns @id{NULL} (and pushes nothing)
when the index @id{n} is greater than the number of upvalues.

For @N{C functions}, this
 function uses the empty string @T{""}
as a name for all upvalues.
(For Lua functions,
upvalues are the external local variables that the function uses,
and that are consequently included in its closure.)

Upvalues have no particular order,
as they are active through the whole function.
They are numbered in an arbitrary order.

}

@APIEntry{typedef void (*lua_Hook) (lua_State *L, lua_Debug *ar);|

Type for debugging hook functions.

Whenever a hook is called, its @id{ar} argument has its field
@id{event} set to the specific event that triggered the hook.
Lua identifies these events with the following constants:
@defid{LUA_HOOKCALL}, @defid{LUA_HOOKRET},
@defid{LUA_HOOKTAILCALL}, @defid{LUA_HOOKLINE},
and @defid{LUA_HOOKCOUNT}.
Moreover, for line events, the field @id{currentline} is also set.
To get the value of any other field in @id{ar},
the hook must call @Lid{lua_getinfo}.

For call events, @id{event} can be @id{LUA_HOOKCALL},
the normal value, or @id{LUA_HOOKTAILCALL}, for a tail

call;
in this case, there will be no corresponding return event.

While Lua is running a hook, it disables other calls to hooks.
Therefore, if a hook calls back Lua to execute a function or a chunk,
this execution occurs without any calls to hooks.

Hook functions cannot have continuations,
that is, they cannot call @Lid{lua_yieldk},
@Lid{lua_pcallk}, or @Lid{lua_callk} with a non-null @id{k}.

Hook functions can yield under the following conditions:
Only count and line events can yield;
to yield, a hook function must finish its execution
calling @Lid{lua_yield} with @id{nresults} equal to zero
(that is, with no values).

}

@APIEntry{void lua_sethook (lua_State *L, lua_Hook f, int mask, int count);|
@apii{0,0,-}

Sets the debugging hook function.

Argument @id{f} is the hook function.
@id{mask} specifies on which events the hook will be called:
it is formed by a bitwise OR of the constants
@defid{LUA_MASKCALL},
@defid{LUA_MASKRET},
@defid{LUA_MASKLINE},
and @defid{LUA_MASKCOUNT}.
The
@id{count} argument is only meaningful when the mask
includes @id{LUA_MASKCOUNT}.
For each event, the hook is called as explained below:
@description{

@item{The call hook| is called when the interpreter calls a function.
The hook is called just after Lua enters the new function,
before the function gets its arguments.
}

@item{The return hook| is called when the interpreter returns from a function.
The hook is called just before Lua leaves the function.
There is no standard way to access the values
to be returned by the function.
}

@item{The line hook| is called when the interpreter is about to
start the execution of a new line of code,
or when it jumps back in the code (even to the same line).
(This event only happens while Lua is executing a Lua function.)
}

@item{The count hook| is called after the interpreter executes every
@T{count} instructions.
(This event only happens while Lua is executing a Lua function.)
}

}

A hook is disabled by setting @id{mask} to zero.

}

@APIEntry{const
 char *lua_setlocal (lua_State *L, const lua_Debug *ar, int n);|
@apii{0|1,0,-}

Sets the value of a local variable of a given activation record.
It assigns the value at the top of the stack
to the variable and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index is greater than
the number of active local variables.

Parameters @id{ar} and @id{n} are as in function @Lid{lua_getlocal}.

}

@APIEntry{const char *lua_setupvalue (lua_State *L, int funcindex, int n);|
@apii{0|1,0,-}

Sets the value of a closure's upvalue.
It assigns the value at the top of the stack
to the upvalue and returns its name.
It also pops the value from the stack.

Returns @id{NULL} (and pops nothing)
when the index @id{n} is greater than the number of upvalues.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue}.

}

```
@APIEntry{void *lua_upvalueid (lua_State *L, int funcindex, int n);|
@apii{0,0,-}

Returns a unique identifier
 for the upvalue numbered @id{n}
from the closure at index @id{funcindex}.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

Parameters @id{funcindex} and @id{n} are as in function @Lid{lua_getupvalue},
but @id{n} cannot be greater than the number of upvalues.

}

@APIEntry{
void lua_upvaluejoin (lua_State *L, int funcindex1, int n1,
                      int funcindex2, int n2);|
@apii{0,0,-}

Make the @id{n1}-th upvalue of the Lua closure at index @id{funcindex1}
refer to the @id{n2}-th upvalue of the Lua closure at index @id{funcindex2}.

}

}

}


@C{-----------------------------------------------------------------------}
@sect1{@title{The Auxiliary Library}

@index{lauxlib.h}
The @def{auxiliary library} provides several convenient functions
to interface C with Lua.
While the basic
 API provides the primitive functions for all
interactions between C and Lua,
the auxiliary library provides higher-level functions for some
common tasks.

All functions and types from the auxiliary library
are defined in header file @id{lauxlib.h} and
```

have a prefix @id{luaL_}.

All functions in the auxiliary library are built on
top of the basic API,
and so they provide nothing that cannot be done with that API.
Nevertheless, the use of the auxiliary library ensures
more consistency to your code.

Several functions in the auxiliary library use internally some
extra stack slots.
When a function in the auxiliary library uses less than five slots,
it does not check the stack size;
it simply assumes that there are enough slots.

Several functions in the auxiliary library are used to
check @N{C function} arguments.
Because the error message is formatted for arguments
(e.g., @St{bad argument #1}),
you should not use these functions for other stack values.

Functions called @id{luaL_check*}
always
 raise an error if the check is not satisfied.

@sect2{@title{Functions and Types}

Here we list all functions and types from the auxiliary library
in alphabetical order.

@APIEntry{void luaL_addchar (luaL_Buffer *B, char c);|
@apii{?,?,m}

Adds the byte @id{c} to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addlstring (luaL_Buffer *B, const char *s, size_t l);|
@apii{?,?,m}

Adds the string pointed to by @id{s} with length @id{l} to
the buffer @id{B}
@seeC{luaL_Buffer}.
The string can contain @x{embedded zeros}.

}

```
@APIEntry{void luaL_addsize (luaL_Buffer *B, size_t n);|
@apii{?,?,-}

Adds to the buffer @id{B} @seeC{luaL_Buffer}
a string of length @id{n} previously copied to the
buffer area @seeC{luaL_prepbuffer}.

}

@APIEntry{void luaL_addstring (luaL_Buffer *B, const char *s);|
@apii{?,?,m}

Adds the zero-terminated string pointed to by @id{s}
to the buffer @id{B}
@seeC{luaL_Buffer}.

}

@APIEntry{void luaL_addvalue (luaL_Buffer *B);|
@apii{1,?,m}

Adds
 the value at the top of the stack
to the buffer @id{B}
@seeC{luaL_Buffer}.
Pops the value.

This is the only function on string buffers that can (and must)
be called with an extra element on the stack,
which is the value to be added to the buffer.

}

@APIEntry{
void luaL_argcheck (lua_State *L,
                int cond,
                int arg,
                const char *extramsg);|
@apii{0,0,v}

Checks whether @id{cond} is true.
If it is not, raises an error with a standard message @seeF{luaL_argerror}.

}

@APIEntry{int luaL_argerror (lua_State *L, int arg, const char *extramsg);|
@apii{0,0,v}
```

Raises an error reporting a problem with argument @id{arg}
of the @N{C function} that called it,
using a standard message
that includes @id{extramsg} as a comment:
@verbatim{
bad argument #@rep{arg} to '@rep{funcname}' (@rep{extramsg})
}
This function never returns.

}

@APIEntry{typedef struct luaL_Buffer luaL_Buffer;|

Type for a @def{string buffer}.

A string buffer allows @N{C
 code} to build Lua strings piecemeal.
Its pattern of use is as follows:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it with a call @T{luaL_buffinit(L, &b)}.}

@item{
Then add string pieces to the buffer calling any of
the @id{luaL_add*} functions.
}

@item{
Finish by calling @T{luaL_pushresult(&b)}.
This call leaves the final string on the top of the stack.
}

}

If you know beforehand the total size of the resulting string,
you can use the buffer like this:
@itemize{

@item{First declare a variable @id{b} of type @Lid{luaL_Buffer}.}

@item{Then initialize it and preallocate a space of
size @id{sz} with a call @T{luaL_buffinitsize(L, &b, sz)}.}

@item{Then copy the string into that space.}

@item{
Finish by calling @T{luaL_pushresultsize(&b, sz)},
where @id{sz} is the total size of the resulting string
copied into that space.
}

}

During its normal operation,
a string buffer uses a variable number of stack slots.
So, while using
 a buffer, you cannot assume that you know where
the top of the stack is.
You can use the stack between successive calls to buffer operations
as long as that use is balanced;
that is,
when you call a buffer operation,
the stack is at the same level
it was immediately after the previous buffer operation.
(The only exception to this rule is @Lid{luaL_addvalue}.)
After calling @Lid{luaL_pushresult} the stack is back to its
level when the buffer was initialized,
plus the final string on its top.

}

@APIEntry{void luaL_buffinit (lua_State *L, luaL_Buffer *B);|
@apii{0,0,-}

Initializes a buffer @id{B}.
This function does not allocate any space;
the buffer must be declared as a variable
@seeC{luaL_Buffer}.

}

@APIEntry{char *luaL_buffinitsize (lua_State *L, luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Equivalent to the sequence
@Lid{luaL_buffinit}, @Lid{luaL_prepbuffsize}.

}

@APIEntry{int luaL_callmeta (lua_State *L, int obj, const char *e);|
@apii{0,0|1,e}

Calls a metamethod.

If the object
 at index @id{obj} has a metatable and this
metatable has a field @id{e},
this function calls this field passing the object as its only argument.
In this case this function returns true and pushes onto the
stack the value returned by the call.
If there is no metatable or no metamethod,
this function returns false (without pushing any value on the stack).

}

@APIEntry{void luaL_checkany (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function has an argument
of any type (including @nil) at position @id{arg}.

}

@APIEntry{lua_Integer luaL_checkinteger (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is an integer
(or can be converted to an integer)
and returns this integer cast to a @Lid{lua_Integer}.

}

@APIEntry{const char *luaL_checklstring (lua_State *L, int arg, size_t *l);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string;
if @id{l} is not @id{NULL} fills @T{*l}
with the string's length.

This
 function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_checknumber (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a number
and returns this number.

```
}

@APIEntry{
int luaL_checkoption (lua_State *L,
                int arg,
                const char *def,
                const char *const lst[]);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string and
searches for this string in the array @id{lst}
(which must be NULL-terminated).
Returns the index in the array where the string was found.
Raises an error if the argument is not a string or
if the string cannot be found.

If @id{def} is not @id{NULL},
the function uses @id{def} as a default value when
there is no argument @id{arg} or when this argument is @nil.

This is a useful function for mapping strings to @N{C enums}.
(The usual convention in Lua libraries
 is
to use strings instead of numbers to select options.)

}

@APIEntry{void luaL_checkstack (lua_State *L, int sz, const char *msg);|
@apii{0,0,v}

Grows the stack size to @T{top + sz} elements,
raising an error if the stack cannot grow to that size.
@id{msg} is an additional text to go into the error message
(or @id{NULL} for no additional text).

}

@APIEntry{const char *luaL_checkstring (lua_State *L, int arg);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a string
and returns this string.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}
```

@APIEntry{void luaL_checktype (lua_State *L, int arg, int t);|
@apii{0,0,v}

Checks whether the function argument @id{arg} has type @id{t}.
See @Lid{lua_type} for the encoding of types for @id{t}.

}

@APIEntry{void *luaL_checkudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,v}

Checks whether the function argument @id{arg} is a userdata
of the
 type @id{tname} @seeC{luaL_newmetatable} and
returns the userdata address @seeC{lua_touserdata}.

}

@APIEntry{void luaL_checkversion (lua_State *L);|
@apii{0,0,v}

Checks whether the core running the call,
the core that created the Lua state,
and the code making the call are all using the same version of Lua.
Also checks whether the core running the call
and the core that created the Lua state
are using the same address space.

}

@APIEntry{int luaL_dofile (lua_State *L, const char *filename);|
@apii{0,?,e}

Loads and runs the given file.
It is defined as the following macro:
@verbatim{
(luaL_loadfile(L, filename) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true in case of errors.

}

@APIEntry{int luaL_dostring (lua_State *L, const char *str);|
@apii{0,?,-}

Loads and runs the given string.

It is defined as the following macro:
@verbatim{
(luaL_loadstring(L, str) || lua_pcall(L, 0, LUA_MULTRET, 0))
}
It returns false if there are no errors
or true
 in case of errors.

}

@APIEntry{int luaL_error (lua_State *L, const char *fmt, ...);|
@apii{0,0,v}

Raises an error.
The error message format is given by @id{fmt}
plus any extra arguments,
following the same rules of @Lid{lua_pushfstring}.
It also adds at the beginning of the message the file name and
the line number where the error occurred,
if this information is available.

This function never returns,
but it is an idiom to use it in @N{C functions}
as @T{return luaL_error(@rep{args})}.

}

@APIEntry{int luaL_execresult (lua_State *L, int stat);|
@apii{0,3,m}

This function produces the return values for
process-related functions in the standard library
(@Lid{os.execute} and @Lid{io.close}).

}

@APIEntry{
int luaL_fileresult (lua_State *L, int stat, const char *fname);|
@apii{0,1|3,m}

This function produces the return values for
file-related functions in the standard library
(@Lid{io.open}, @Lid{os.rename}, @Lid{file:seek}, etc.).

}

@APIEntry{int luaL_getmetafield (lua_State

```
 *L, int obj, const char *e);|
@apii{0,0|1,m}

Pushes onto the stack the field @id{e} from the metatable
of the object at index @id{obj} and returns the type of the pushed value.
If the object does not have a metatable,
or if the metatable does not have this field,
pushes nothing and returns @id{LUA_TNIL}.

}

@APIEntry{int luaL_getmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

Pushes onto the stack the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}
(@nil if there is no metatable associated with that name).
Returns the type of the pushed value.

}

@APIEntry{int luaL_getsubtable (lua_State *L, int idx, const char *fname);|
@apii{0,1,e}

Ensures that the value @T{t[fname]},
where @id{t} is the value at index @id{idx},
is a table,
and pushes that table onto the stack.
Returns true if it finds a previous table there
and false if it creates a new table.

}

@APIEntry{
const char *luaL_gsub (lua_State *L,
                    const char *s,
                     const char *p,
                    const char *r);|
@apii{0,1,m}

Creates a copy of string @id{s} by replacing
any occurrence of the string @id{p}
with the string @id{r}.
Pushes the resulting string on the stack and returns it.

}

@APIEntry{lua_Integer luaL_len (lua_State *L, int index);|
```

```
@apii{0,0,e}

Returns the @Q{length} of the value at the given index
as a number;
it is equivalent to the @Char{#} operator in Lua @see{len-op}.
Raises an error if the result of the operation is not an integer.
(This case only can happen through metamethods.)

}

@APIEntry{
int luaL_loadbuffer (lua_State *L,
                     const char *buff,
                     size_t sz,
                     const char *name);|
@apii{0,1,-}

Equivalent to @Lid{luaL_loadbufferx} with @id{mode} equal to @id{NULL}.

}


@APIEntry{
int luaL_loadbufferx (lua_State *L,
                      const char *buff,
                      size_t sz,
                      const char *name,

              const char *mode);|
@apii{0,1,-}

Loads a buffer as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the
buffer pointed to by @id{buff} with size @id{sz}.

This function returns the same results as @Lid{lua_load}.
@id{name} is the chunk name,
used for debug information and error messages.
The string @id{mode} works as in function @Lid{lua_load}.

}


@APIEntry{int luaL_loadfile (lua_State *L, const char *filename);|
@apii{0,1,m}

Equivalent to @Lid{luaL_loadfilex} with @id{mode} equal to @id{NULL}.
```

}

@APIEntry{int luaL_loadfilex (lua_State *L, const char *filename,
const char *mode);|
@apii{0,1,m}

Loads a file as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in the file
named @id{filename}.
If @id{filename} is @id{NULL},
then it loads from the standard input.
The first line in the file is ignored if it starts with a @T{#}.

The string @id{mode} works as in function @Lid{lua_load}.

This function
returns the same results as @Lid{lua_load},
but it has an extra error code @defid{LUA_ERRFILE}
for file-related errors
(e.g., it cannot open or read the file).

As @Lid{lua_load}, this function only loads the chunk;
it does not run it.

}

@APIEntry{int luaL_loadstring (lua_State *L, const char *s);|
@apii{0,1,-}

Loads a string as a Lua chunk.
This function uses @Lid{lua_load} to load the chunk in
the zero-terminated string @id{s}.

This function returns the same results as @Lid{lua_load}.

Also as @Lid{lua_load}, this function only loads the chunk;
it does not run it.

}

@APIEntry{void luaL_newlib (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new table and registers there
the functions in list @id{l}.

It is implemented as the following macro:

@verbatim{
(luaL_newlibtable(L,l), luaL_setfuncs(L,l,0))
}
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{void luaL_newlibtable (lua_State *L, const luaL_Reg l[]);|
@apii{0,1,m}

Creates a new
 table with a size optimized
to store all entries in the array @id{l}
(but does not actually store them).
It is intended to be used in conjunction with @Lid{luaL_setfuncs}
@seeF{luaL_newlib}.

It is implemented as a macro.
The array @id{l} must be the actual array,
not a pointer to it.

}

@APIEntry{int luaL_newmetatable (lua_State *L, const char *tname);|
@apii{0,1,m}

If the registry already has the key @id{tname},
returns 0.
Otherwise,
creates a new table to be used as a metatable for userdata,
adds to this new table the pair @T{__name = tname},
adds to the registry the pair @T{[tname] = new table},
and returns 1.
(The entry @idx{__name} is used by some error-reporting functions.)

In both cases pushes onto the stack the final value associated
with @id{tname} in the registry.

}

@APIEntry{lua_State *luaL_newstate (void);|
@apii{0,0,-}

Creates a new Lua state.
It calls @Lid{lua_newstate} with an
allocator based on the @N{standard C} @id{realloc} function
and then sets a panic function

```
 @see{C-error} that prints
an error message to the standard error output in case of fatal
errors.

Returns the new state,
or @id{NULL} if there is a @x{memory allocation error}.

}

@APIEntry{void luaL_openlibs (lua_State *L);|
@apii{0,0,e}

Opens all standard Lua libraries into the given state.

}

@APIEntry{
T luaL_opt (L, func, arg, dflt);|
@apii{0,0,e}

This macro is defined as follows:
@verbatim{
(lua_isnoneornil(L,(arg)) ? (dflt) : func(L,(arg)))
}
In words, if the argument @id{arg} is nil or absent,
the macro results in the default @id{dflt}.
Otherwise, it results in the result of calling @id{func}
with the state @id{L} and the argument index @id{arg} as
arguments.
Note that it evaluates the expression @id{dflt} only if needed.

}

@APIEntry{
lua_Integer luaL_optinteger (lua_State *L,
                             int arg,
                             lua_Integer d);|
@apii{0,0,v}

If the function argument @id{arg} is an integer
(or convertible to an integer),
returns this integer.
If
 this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}
```

```
@APIEntry{
const char *luaL_optlstring (lua_State *L,
                             int arg,
                             const char *d,
                             size_t *l);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

If @id{l} is not @id{NULL},
fills the position @T{*l} with the result's length.
If the result is @id{NULL}
(only possible when returning @id{d} and @T{d == NULL}),
its length is considered zero.

This function uses @Lid{lua_tolstring} to get its result,
so all conversions and caveats of that function apply here.

}

@APIEntry{lua_Number luaL_optnumber (lua_State *L, int arg, lua_Number d);|
@apii{0,0,v}

If the function argument @id{arg} is a number,
returns this number.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.

}

@APIEntry{
const
 char *luaL_optstring (lua_State *L,
                       int arg,
                       const char *d);|
@apii{0,0,v}

If the function argument @id{arg} is a string,
returns this string.
If this argument is absent or is @nil,
returns @id{d}.
Otherwise, raises an error.
```

}

@APIEntry{char *luaL_prepbuffer (luaL_Buffer *B);|
@apii{?,?,m}

Equivalent to @Lid{luaL_prepbuffsize}
with the predefined size @defid{LUAL_BUFFERSIZE}.

}

@APIEntry{char *luaL_prepbuffsize (luaL_Buffer *B, size_t sz);|
@apii{?,?,m}

Returns an address to a space of size @id{sz}
where you can copy a string to be added to buffer @id{B}
@seeC{luaL_Buffer}.
After copying the string into this space you must call
@Lid{luaL_addsize} with the size of the string to actually add
it to the buffer.

}

@APIEntry{void luaL_pushresult (luaL_Buffer *B);|
@apii{?,1,m}

Finishes the use of buffer @id{B} leaving the final string on
the top of the stack.

}

@APIEntry{void luaL_pushresultsize (luaL_Buffer
 *B, size_t sz);|
@apii{?,1,m}

Equivalent to the sequence @Lid{luaL_addsize}, @Lid{luaL_pushresult}.

}

@APIEntry{int luaL_ref (lua_State *L, int t);|
@apii{1,0,m}

Creates and returns a @def{reference},
in the table at index @id{t},
for the object at the top of the stack (and pops the object).

A reference is a unique integer key.
As long as you do not manually add integer keys into table @id{t},

@Lid{luaL_ref} ensures the uniqueness of the key it returns.
You can retrieve an object referred by reference @id{r}
by calling @T{lua_rawgeti(L, t, r)}.
Function @Lid{luaL_unref} frees a reference and its associated object.

If the object at the top of the stack is @nil,
@Lid{luaL_ref} returns the constant @defid{LUA_REFNIL}.
The constant @defid{LUA_NOREF} is guaranteed to be different
from any reference returned by @Lid{luaL_ref}.

}

@APIEntry{
typedef struct luaL_Reg {
 const char *name;
 lua_CFunction func;
} luaL_Reg;
|

Type for arrays of functions to be registered by
@Lid{luaL_setfuncs}.
@id{name}
 is the function name and @id{func} is a pointer to
the function.
Any array of @Lid{luaL_Reg} must end with a sentinel entry
in which both @id{name} and @id{func} are @id{NULL}.

}

@APIEntry{
void luaL_requiref (lua_State *L, const char *modname,
                lua_CFunction openf, int glb);|
@apii{0,1,e}

If @id{modname} is not already present in @Lid{package.loaded},
calls function @id{openf} with string @id{modname} as an argument
and sets the call result in @T{package.loaded[modname]},
as if that function has been called through @Lid{require}.

If @id{glb} is true,
also stores the module into global @id{modname}.

Leaves a copy of the module on the stack.

}

@APIEntry{void luaL_setfuncs (lua_State *L, const luaL_Reg *l, int nup);|
@apii{nup,0,m}

Registers all functions in the array @id{l}
@seeC{luaL_Reg} into the table on the top of the stack
(below optional upvalues, see next).

When @id{nup} is not zero,
all functions are created sharing @id{nup} upvalues,
which
 must be previously pushed on the stack
on top of the library table.
These values are popped from the stack after the registration.

}

@APIEntry{void luaL_setmetatable (lua_State *L, const char *tname);|
@apii{0,0,-}

Sets the metatable of the object at the top of the stack
as the metatable associated with name @id{tname}
in the registry @seeC{luaL_newmetatable}.

}

@APIEntry{
typedef struct luaL_Stream {
 FILE *f;
 lua_CFunction closef;
} luaL_Stream;
|

The standard representation for @x{file handles},
which is used by the standard I/O library.

A file handle is implemented as a full userdata,
with a metatable called @id{LUA_FILEHANDLE}
(where @id{LUA_FILEHANDLE} is a macro with the actual metatable's name).
The metatable is created by the I/O library
@seeF{luaL_newmetatable}.

This userdata must start with the structure @id{luaL_Stream};
it can contain other data after this initial structure.
Field @id{f} points to the corresponding C stream
(or it can be @id{NULL} to
 indicate an incompletely created handle).
Field @id{closef} points to a Lua function
that will be called to close the stream
when the handle is closed or collected;
this function receives the file handle as its sole argument and

must return either @Rw{true} (in case of success)
or @nil plus an error message (in case of error).
Once Lua calls this field,
it changes the field value to @id{NULL}
to signal that the handle is closed.

}

@APIEntry{void *luaL_testudata (lua_State *L, int arg, const char *tname);|
@apii{0,0,m}

This function works like @Lid{luaL_checkudata},
except that, when the test fails,
it returns @id{NULL} instead of raising an error.

}

@APIEntry{const char *luaL_tolstring (lua_State *L, int idx, size_t *len);|
@apii{0,1,e}

Converts any Lua value at the given index to a @N{C string}
in a reasonable format.
The resulting string is pushed onto the stack and also
returned by the function.
If @id{len} is not @id{NULL},
the function also sets @T{*len} with the string length.

If
 the value has a metatable with a @idx{__tostring} field,
then @id{luaL_tolstring} calls the corresponding metamethod
with the value as argument,
and uses the result of the call as its result.

}

@APIEntry{
void luaL_traceback (lua_State *L, lua_State *L1, const char *msg,
                int level);|
@apii{0,1,m}

Creates and pushes a traceback of the stack @id{L1}.
If @id{msg} is not @id{NULL} it is appended
at the beginning of the traceback.
The @id{level} parameter tells at which level
to start the traceback.

}

```
@APIEntry{const char *luaL_typename (lua_State *L, int index);|
@apii{0,0,-}

Returns the name of the type of the value at the given index.

}

@APIEntry{void luaL_unref (lua_State *L, int t, int ref);|
@apii{0,0,-}

Releases reference @id{ref} from the table at index @id{t}
@seeC{luaL_ref}.
The entry is removed from the table,
so that the referred object can be collected.
The reference @id{ref} is also freed to be used again.

If @id{ref} is @Lid{LUA_NOREF} or
 @Lid{LUA_REFNIL},
@Lid{luaL_unref} does nothing.

}

@APIEntry{void luaL_where (lua_State *L, int lvl);|
@apii{0,1,m}

Pushes onto the stack a string identifying the current position
of the control at level @id{lvl} in the call stack.
Typically this string has the following format:
@verbatim{
@rep{chunkname}:@rep{currentline}:
}
@N{Level 0} is the running function,
@N{level 1} is the function that called the running function,
etc.

This function is used to build a prefix for error messages.

}

}

}


@C{----------------------------------------------------------------------}
@sect1{libraries| @title{Standard Libraries}

The standard Lua libraries provide useful functions
```

that are implemented directly through the @N{C API}.
Some of these functions provide essential services to the language
(e.g., @Lid{type} and @Lid{getmetatable});
others provide access to @Q{outside} services (e.g., I/O);
and others could be implemented in Lua itself,
but are quite useful or have critical performance
requirements that
deserve an implementation in C (e.g., @Lid{table.sort}).

All libraries are implemented through the official @N{C API}
and are provided as separate @N{C modules}.
Currently, Lua has the following standard libraries:
@itemize{

@item{@link{predefined|basic library};}

@item{@link{corolib|coroutine library};}

@item{@link{packlib|package library};}

@item{@link{strlib|string manipulation};}

@item{@link{utf8|basic UTF-8 support};}

@item{@link{tablib|table manipulation};}

@item{@link{mathlib|mathematical functions} (sin, log, etc.);}

@item{@link{iolib|input and output};}

@item{@link{oslib|operating system facilities};}

@item{@link{debuglib|debug facilities}.}

}
Except for the basic and the package libraries,
each library provides all its functions as fields of a global table
or as methods of its objects.

To have access to these libraries,
the @N{C host} program should call the @Lid{luaL_openlibs} function,
which opens all standard libraries.
Alternatively,
the
host program can open them individually by using
@Lid{luaL_requiref} to call
@defid{luaopen_base} (for the basic library),
@defid{luaopen_package} (for the package library),

@defid{luaopen_coroutine} (for the coroutine library),
@defid{luaopen_string} (for the string library),
@defid{luaopen_utf8} (for the UTF8 library),
@defid{luaopen_table} (for the table library),
@defid{luaopen_math} (for the mathematical library),
@defid{luaopen_io} (for the I/O library),
@defid{luaopen_os} (for the operating system library),
and @defid{luaopen_debug} (for the debug library).
These functions are declared in @defid{lualib.h}.

@sect2{predefined| @title{Basic Functions}

The basic library provides core functions to Lua.
If you do not include this library in your application,
you should check carefully whether you need to provide
implementations for some of its facilities.

@LibEntry{assert (v [, message])|

Calls @Lid{error} if
the value of its argument @id{v} is false (i.e., @nil or @false);
otherwise,
returns all its arguments.
In case of error,
@id{message} is the error object;
when absent, it defaults to @St{assertion failed!}

}

@LibEntry{collectgarbage ([opt [, arg]])|

This function is a generic interface to the garbage collector.
It performs different functions according to its first argument, @id{opt}:
@description{

@item{@St{collect}|
performs a full garbage-collection cycle.
This is the default option.
}

@item{@St{stop}|
stops automatic execution of the garbage collector.
The collector will run only when explicitly invoked,
until a call to restart it.
}

@item{@St{restart}|

restarts automatic execution of the garbage collector.
}

@item{@St{count}|
returns the total memory in use by Lua in Kbytes.
The value has a fractional part,
so that it multiplied by 1024
gives the exact number of bytes in use by Lua
(except for overflows).
}

@item{@St{step}|
performs a garbage-collection step.
The step @Q{size} is controlled by @id{arg}.
With a zero value,
the collector will
 perform one basic (indivisible) step.
For non-zero values,
the collector will perform as if that amount of memory
(in KBytes) had been allocated by Lua.
Returns @Rw{true} if the step finished a collection cycle.
}

@item{@St{setpause}|
sets @id{arg} as the new value for the @emph{pause} of
the collector @see{GC}.
Returns the previous value for @emph{pause}.
}

@item{@St{setstepmul}|
sets @id{arg} as the new value for the @emph{step multiplier} of
the collector @see{GC}.
Returns the previous value for @emph{step}.
}

@item{@St{isrunning}|
returns a boolean that tells whether the collector is running
(i.e., not stopped).
}

}

}

@LibEntry{dofile ([filename])|
Opens the named file and executes its contents as a Lua chunk.
When called without arguments,
@id{dofile} executes the contents of the standard input (@id{stdin}).

Returns all values returned by the chunk.
In case of errors, @id{dofile} propagates the error
to its caller (that is, @id{dofile} does not run in protected mode).

}

@LibEntry{error
 (message [, level])|
Terminates the last protected function called
and returns @id{message} as the error object.
Function @id{error} never returns.

Usually, @id{error} adds some information about the error position
at the beginning of the message, if the message is a string.
The @id{level} argument specifies how to get the error position.
With @N{level 1} (the default), the error position is where the
@id{error} function was called.
@N{Level 2} points the error to where the function
that called @id{error} was called; and so on.
Passing a @N{level 0} avoids the addition of error position information
to the message.

}

@LibEntry{_G|
A global variable (not a function) that
holds the @x{global environment} @see{globalenv}.
Lua itself does not use this variable;
changing its value does not affect any environment,
nor vice versa.

}

@LibEntry{getmetatable (object)|

If @id{object} does not have a metatable, returns @nil.
Otherwise,
if the object's metatable has a @idx{__metatable}
 field,
returns the associated value.
Otherwise, returns the metatable of the given object.

}

@LibEntry{ipairs (t)|

Returns three values (an iterator function, the table @id{t}, and 0)
so that the construction

@verbatim{
for i,v in ipairs(t) do @rep{body} end
}
will iterate over the key@En{}value pairs
(@T{1,t[1]}), (@T{2,t[2]}), @ldots,
up to the first nil value.

}

@LibEntry{load (chunk [, chunkname [, mode [, env]]])|

Loads a chunk.

If @id{chunk} is a string, the chunk is this string.
If @id{chunk} is a function,
@id{load} calls it repeatedly to get the chunk pieces.
Each call to @id{chunk} must return a string that concatenates
with previous results.
A return of an empty string, @nil, or no value signals the end of the chunk.

If there are no syntactic errors,
returns the compiled chunk as a function;
otherwise, returns @nil plus the error message.

If the resulting function has upvalues,
the first upvalue is set to the value of @id{env},
if that parameter is given,
or
 to the value of the @x{global environment}.
Other upvalues are initialized with @nil.
(When you load a main chunk,
the resulting function will always have exactly one upvalue,
the @id{_ENV} variable @see{globalenv}.
However,
when you load a binary chunk created from a function @seeF{string.dump},
the resulting function can have an arbitrary number of upvalues.)
All upvalues are fresh, that is,
they are not shared with any other function.

@id{chunkname} is used as the name of the chunk for error messages
and debug information @see{debugI}.
When absent,
it defaults to @id{chunk}, if @id{chunk} is a string,
or to @St{=(load)} otherwise.

The string @id{mode} controls whether the chunk can be text or binary
(that is, a precompiled chunk).
It may be the string @St{b} (only @x{binary chunk}s),

@St{t} (only text chunks),
or @St{bt} (both binary and text).
The default is @St{bt}.

Lua does not check the consistency of binary chunks.
Maliciously crafted binary chunks can crash
the interpreter.

}

@LibEntry{loadfile
([filename [, mode [, env]]])|

Similar to @Lid{load},
but gets the chunk from file @id{filename}
or from the standard input,
if no file name is given.

}

@LibEntry{next (table [, index])|

Allows a program to traverse all fields of a table.
Its first argument is a table and its second argument
is an index in this table.
@id{next} returns the next index of the table
and its associated value.
When called with @nil as its second argument,
@id{next} returns an initial index
and its associated value.
When called with the last index,
or with @nil in an empty table,
@id{next} returns @nil.
If the second argument is absent, then it is interpreted as @nil.
In particular,
you can use @T{next(t)} to check whether a table is empty.

The order in which the indices are enumerated is not specified,
@emph{even for numeric indices}.
(To traverse a table in numerical order,
use a numerical @Rw{for}.)

The behavior of @id{next} is undefined if,
during the traversal,
you assign
any value to a non-existent field in the table.
You may however modify existing fields.
In particular, you may clear existing fields.

}

@LibEntry{pairs (t)|

If @id{t} has a metamethod @idx{__pairs},
calls it with @id{t} as argument and returns the first three
results from the call.

Otherwise,
returns three values: the @Lid{next} function, the table @id{t}, and @nil,
so that the construction
@verbatim{
for k,v in pairs(t) do @rep{body} end
}
will iterate over all key@En{}value pairs of table @id{t}.

See function @Lid{next} for the caveats of modifying
the table during its traversal.

}

@LibEntry{pcall (f [, arg1, @Cdots])|

Calls function @id{f} with
the given arguments in @def{protected mode}.
This means that any error @N{inside @T{f}} is not propagated;
instead, @id{pcall} catches the error
and returns a status code.
Its first result is the status code (a boolean),
which is true if the call succeeds without errors.
In such case, @id{pcall} also returns all results from the call,
after
 this first result.
In case of any error, @id{pcall} returns @false plus the error message.

}

@LibEntry{print (@Cdots)|
Receives any number of arguments
and prints their values to @id{stdout},
using the @Lid{tostring} function to convert each argument to a string.
@id{print} is not intended for formatted output,
but only as a quick way to show a value,
for instance for debugging.
For complete control over the output,
use @Lid{string.format} and @Lid{io.write}.

}

@LibEntry{rawequal (v1, v2)|
Checks whether @id{v1} is equal to @id{v2},
without invoking the @idx{__eq} metamethod.
Returns a boolean.

}

@LibEntry{rawget (table, index)|
Gets the real value of @T{table[index]},
without invoking the @idx{__index} metamethod.
@id{table} must be a table;
@id{index} may be any value.

}

@LibEntry{rawlen (v)|
Returns the length of the object @id{v},
which must be a table or a string,
without invoking the @idx{__len} metamethod.
Returns an integer.

}

@LibEntry{rawset (table, index, value)|
Sets
 the real value of @T{table[index]} to @id{value},
without invoking the @idx{__newindex} metamethod.
@id{table} must be a table,
@id{index} any value different from @nil and @x{NaN},
and @id{value} any Lua value.

This function returns @id{table}.

}

@LibEntry{select (index, @Cdots)|

If @id{index} is a number,
returns all arguments after argument number @id{index};
a negative number indexes from the end (@num{-1} is the last argument).
Otherwise, @id{index} must be the string @T{"#"},
and @id{select} returns the total number of extra arguments it received.

}

@LibEntry{setmetatable (table, metatable)|

Sets the metatable for the given table.
(To change the metatable of other types from Lua code,
you must use the @link{debuglib|debug library}.)
If @id{metatable} is @nil,
removes the metatable of the given table.
If the original metatable has a @idx{__metatable} field,
raises an error.

This function returns @id{table}.

}

@LibEntry{tonumber (e [, base])|

When called with
 no @id{base},
@id{tonumber} tries to convert its argument to a number.
If the argument is already a number or
a string convertible to a number,
then @id{tonumber} returns this number;
otherwise, it returns @nil.

The conversion of strings can result in integers or floats,
according to the lexical conventions of Lua @see{lexical}.
(The string may have leading and trailing spaces and a sign.)

When called with @id{base},
then @id{e} must be a string to be interpreted as
an integer numeral in that base.
The base may be any integer between 2 and 36, inclusive.
In bases @N{above 10}, the letter @Char{A} (in either upper or lower case)
@N{represents 10}, @Char{B} @N{represents 11}, and so forth,
with @Char{Z} representing 35.
If the string @id{e} is not a valid numeral in the given base,
the function returns @nil.

}

@LibEntry{tostring (v)|
Receives a value of any type and
converts it to a string in a human-readable format.
(For complete control of how numbers are converted,
use @Lid{string.format}.)

If
 the metatable of @id{v} has a @idx{__tostring} field,
then @id{tostring} calls the corresponding value

with @id{v} as argument,
and uses the result of the call as its result.

}

@LibEntry{type (v)|
Returns the type of its only argument, coded as a string.
The possible results of this function are
@St{nil} (a string, not the value @nil),
@St{number},
@St{string},
@St{boolean},
@St{table},
@St{function},
@St{thread},
and @St{userdata}.

}

@LibEntry{_VERSION|

A global variable (not a function) that
holds a string containing the running Lua version.
The current value of this variable is @St{Lua 5.3}.

}

@LibEntry{xpcall (f, msgh [, arg1, @Cdots])|

This function is similar to @Lid{pcall},
except that it sets a new @x{message handler} @id{msgh}.

}

}

@sect2{corolib| @title{Coroutine Manipulation}

This library comprises the operations to manipulate coroutines,
which come inside the table @defid{coroutine}.
See @See{coroutine} for a general description of coroutines.

@LibEntry{coroutine.create
(f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.

Returns this new coroutine,
an object with type @T{"thread"}.

}

@LibEntry{coroutine.isyieldable ()|

Returns true when the running coroutine can yield.

A running coroutine is yieldable if it is not the main thread and
it is not inside a non-yieldable @N{C function}.

}

@LibEntry{coroutine.resume (co [, val1, @Cdots])|

Starts or continues the execution of coroutine @id{co}.
The first time you resume a coroutine,
it starts running its body.
The values @id{val1}, @ldots are passed
as the arguments to the body function.
If the coroutine has yielded,
@id{resume} restarts it;
the values @id{val1}, @ldots are passed
as the results from the yield.

If the coroutine runs without any errors,
@id{resume} returns @true plus any values passed to @id{yield}
(when the coroutine yields) or any values returned by the body function
(when the coroutine terminates).
If there is any error,
@id{resume}
returns @false plus the error message.

}

@LibEntry{coroutine.running ()|

Returns the running coroutine plus a boolean,
true when the running coroutine is the main one.

}

@LibEntry{coroutine.status (co)|

Returns the status of coroutine @id{co}, as a string:
@T{"running"},
if the coroutine is running (that is, it called @id{status});

@T{"suspended"}, if the coroutine is suspended in a call to @id{yield},
or if it has not started running yet;
@T{"normal"} if the coroutine is active but not running
(that is, it has resumed another coroutine);
and @T{"dead"} if the coroutine has finished its body function,
or if it has stopped with an error.

}

@LibEntry{coroutine.wrap (f)|

Creates a new coroutine, with body @id{f}.
@id{f} must be a function.
Returns a function that resumes the coroutine each time it is called.
Any arguments passed to the function behave as the
extra arguments to @id{resume}.
Returns the same values returned by @id{resume},
except the first boolean.
In case of error,
 propagates the error.

}

@LibEntry{coroutine.yield (@Cdots)|

Suspends the execution of the calling coroutine.
Any arguments to @id{yield} are passed as extra results to @id{resume}.

}

}

@sect2{packlib| @title{Modules}

The package library provides basic
facilities for loading modules in Lua.
It exports one function directly in the global environment:
@Lid{require}.
Everything else is exported in a table @defid{package}.

@LibEntry{require (modname)|

Loads the given module.
The function starts by looking into the @Lid{package.loaded} table
to determine whether @id{modname} is already loaded.
If it is, then @id{require} returns the value stored
at @T{package.loaded[modname]}.

Otherwise, it tries to find a @emph{loader} for the module.

To find a loader,
@id{require} is guided by the @Lid{package.searchers} sequence.
By changing this sequence,
we can change how @id{require} looks for a module.
The following explanation is based on the default configuration
for @Lid{package.searchers}.

First
 @id{require} queries @T{package.preload[modname]}.
If it has a value,
this value (which must be a function) is the loader.
Otherwise @id{require} searches for a Lua loader using the
path stored in @Lid{package.path}.
If that also fails, it searches for a @N{C loader} using the
path stored in @Lid{package.cpath}.
If that also fails,
it tries an @emph{all-in-one} loader @seeF{package.searchers}.

Once a loader is found,
@id{require} calls the loader with two arguments:
@id{modname} and an extra value dependent on how it got the loader.
(If the loader came from a file,
this extra value is the file name.)
If the loader returns any non-nil value,
@id{require} assigns the returned value to @T{package.loaded[modname]}.
If the loader does not return a non-nil value and
has not assigned any value to @T{package.loaded[modname]},
then @id{require} assigns @Rw{true} to this entry.
In any case, @id{require} returns the
final value of @T{package.loaded[modname]}.

If there is any error
 loading or running the module,
or if it cannot find any loader for the module,
then @id{require} raises an error.

}

@LibEntry{package.config|

A string describing some compile-time configurations for packages.
This string is a sequence of lines:
@itemize{

@item{The first line is the @x{directory separator} string.
Default is @Char{\} for @x{Windows} and @Char{/} for all other systems.}

@item{The second line is the character that separates templates in a path.
Default is @Char{;}.}

@item{The third line is the string that marks the
substitution points in a template.
Default is @Char{?}.}

@item{The fourth line is a string that, in a path in @x{Windows},
is replaced by the executable's directory.
Default is @Char{!}.}

@item{The fifth line is a mark to ignore all text after it
when building the @id{luaopen_} function name.
Default is @Char{-}.}

}

}

@LibEntry{package.cpath|

The path used by @Lid{require} to search for a @N{C loader}.

Lua initializes the @N{C path} @Lid{package.cpath}
 in the same way
it initializes the Lua path @Lid{package.path},
using the environment variable @defid{LUA_CPATH_5_3},
or the environment variable @defid{LUA_CPATH},
or a default path defined in @id{luaconf.h}.

}

@LibEntry{package.loaded|

A table used by @Lid{require} to control which
modules are already loaded.
When you require a module @id{modname} and
@T{package.loaded[modname]} is not false,
@Lid{require} simply returns the value stored there.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.loadlib (libname, funcname)|

Dynamically links the host program with the @N{C library} @id{libname}.

If @id{funcname} is @St{*},
then it only links with the library,
making the symbols exported by the library
available to other dynamically linked libraries.
Otherwise,
it looks for a function @id{funcname} inside the library
and returns this function as a @N{C function}.
So, @id{funcname}
must follow the @Lid{lua_CFunction} prototype
@seeC{lua_CFunction}.

This is a low-level function.
It completely bypasses the package and module system.
Unlike @Lid{require},
it does not perform any path searching and
does not automatically adds extensions.
@id{libname} must be the complete file name of the @N{C library},
including if necessary a path and an extension.
@id{funcname} must be the exact name exported by the @N{C library}
(which may depend on the @N{C compiler} and linker used).

This function is not supported by @N{Standard C}.
As such, it is only available on some platforms
(Windows, Linux, Mac OS X, Solaris, BSD,
plus other Unix systems that support the @id{dlfcn} standard).

}

@LibEntry{package.path|

The path used by @Lid{require} to search for a Lua loader.

At start-up, Lua initializes this variable with
the value of the environment variable @defid{LUA_PATH_5_3} or
the environment variable @defid{LUA_PATH} or
with a default path defined in @id{luaconf.h},
if those
environment variables are not defined.
Any @St{;;} in the value of the environment variable
is replaced by the default path.

}

@LibEntry{package.preload|

A table to store loaders for specific modules
@seeF{require}.

This variable is only a reference to the real table;
assignments to this variable do not change the
table used by @Lid{require}.

}

@LibEntry{package.searchers|

A table used by @Lid{require} to control how to load modules.

Each entry in this table is a @def{searcher function}.
When looking for a module,
@Lid{require} calls each of these searchers in ascending order,
with the module name (the argument given to @Lid{require}) as its
sole parameter.
The function can return another function (the module @def{loader})
plus an extra value that will be passed to that loader,
or a string explaining why it did not find that module
(or @nil if it has nothing to say).

Lua initializes this table with four searcher functions.

The first searcher simply looks for a loader in
the
@Lid{package.preload} table.

The second searcher looks for a loader as a Lua library,
using the path stored at @Lid{package.path}.
The search is done as described in function @Lid{package.searchpath}.

The third searcher looks for a loader as a @N{C library},
using the path given by the variable @Lid{package.cpath}.
Again,
the search is done as described in function @Lid{package.searchpath}.
For instance,
if the @N{C path} is the string
@verbatim{
"./?.so;./?.dll;/usr/local/?/init.so"
}
the searcher for module @id{foo}
will try to open the files @T{./foo.so}, @T{./foo.dll},
and @T{/usr/local/foo/init.so}, in that order.
Once it finds a @N{C library},
this searcher first uses a dynamic link facility to link the
application with the library.

Then it tries to find a @N{C function} inside the library to
be used as the loader.
The name of this @N{C function} is the string @St{luaopen_}
concatenated with a copy of the module name where each dot
is replaced by an underscore.
Moreover, if
 the module name has a hyphen,
its suffix after (and including) the first hyphen is removed.
For instance, if the module name is @id{a.b.c-v2.1},
the function name will be @id{luaopen_a_b_c}.

The fourth searcher tries an @def{all-in-one loader}.
It searches the @N{C path} for a library for
the root name of the given module.
For instance, when requiring @id{a.b.c},
it will search for a @N{C library} for @id{a}.
If found, it looks into it for an open function for
the submodule;
in our example, that would be @id{luaopen_a_b_c}.
With this facility, a package can pack several @N{C submodules}
into one single library,
with each submodule keeping its original open function.

All searchers except the first one (preload) return as the extra value
the file name where the module was found,
as returned by @Lid{package.searchpath}.
The first searcher returns no extra value.

}

@LibEntry{package.searchpath (name, path [, sep [, rep]])|

Searches for the given @id{name} in the given @id{path}.

A path
 is a string containing a sequence of
@emph{templates} separated by semicolons.
For each template,
the function replaces each interrogation mark (if any)
in the template with a copy of @id{name}
wherein all occurrences of @id{sep}
(a dot, by default)
were replaced by @id{rep}
(the system's directory separator, by default),
and then tries to open the resulting file name.

For instance, if the path is the string
@verbatim{

"./?.lua;./?.lc;/usr/local/?/init.lua"
}
the search for the name @id{foo.a}
will try to open the files
@T{./foo/a.lua}, @T{./foo/a.lc}, and
@T{/usr/local/foo/a/init.lua}, in that order.

Returns the resulting name of the first file that it can
open in read mode (after closing the file),
or @nil plus an error message if none succeeds.
(This error message lists all file names it tried to open.)

}

}

@sect2{strlib| @title{String Manipulation}

This library provides generic functions for string manipulation,
such as finding and extracting substrings, and pattern matching.
When
 indexing a string in Lua, the first character is at @N{position 1}
(not @N{at 0}, as in C).
Indices are allowed to be negative and are interpreted as indexing backwards,
from the end of the string.
Thus, the last character is at position @num{-1}, and so on.

The string library provides all its functions inside the table
@defid{string}.
It also sets a @x{metatable for strings}
where the @idx{__index} field points to the @id{string} table.
Therefore, you can use the string functions in object-oriented style.
For instance, @T{string.byte(s,i)}
can be written as @T{s:byte(i)}.

The string library assumes one-byte character encodings.

@LibEntry{string.byte (s [, i [, j]])|
Returns the internal numeric codes of the characters @T{s[i]},
@T{s[i+1]}, @ldots, @T{s[j]}.
The default value for @id{i} @N{is 1};
the default value for @id{j} @N{is @id{i}}.
These indices are corrected
following the same rules of function @Lid{string.sub}.

Numeric codes are not necessarily portable across

platforms.

}

@LibEntry{string.char (@Cdots)|
Receives zero or more integers.
Returns a string with length equal to the number of arguments,
in which each character has the internal numeric code equal
to its corresponding argument.

Numeric codes are not necessarily portable across platforms.

}

@LibEntry{string.dump (function [, strip])|

Returns a string containing a binary representation
(a @emph{binary chunk})
of the given function,
so that a later @Lid{load} on this string returns
a copy of the function (but with new upvalues).
If @id{strip} is a true value,
the binary representation may not include all debug information
about the function,
to save space.

Functions with upvalues have only their number of upvalues saved.
When (re)loaded,
those upvalues receive fresh instances containing @nil.
(You can use the debug library to serialize
and reload the upvalues of a function
in a way adequate to your needs.)

}

@LibEntry{string.find (s, pattern [, init [, plain]])|

Looks for the
first match of
@id{pattern} @see{pm} in the string @id{s}.
If it finds a match, then @id{find} returns the indices @N{of @T{s}}
where this occurrence starts and ends;
otherwise, it returns @nil.
A third, optional numeric argument @id{init} specifies
where to start the search;
its default value @N{is 1} and can be negative.
A value of @true as a fourth, optional argument @id{plain}
turns off the pattern matching facilities,

so the function does a plain @Q{find substring} operation,
with no characters in @id{pattern} being considered magic.
Note that if @id{plain} is given, then @id{init} must be given as well.

If the pattern has captures,
then in a successful match
the captured values are also returned,
after the two indices.

}

@LibEntry{string.format (formatstring, @Cdots)|

Returns a formatted version of its variable number of arguments
following the description given in its first argument (which must be a string).
The format string follows the same rules as the @ANSI{sprintf}.
The
 only differences are that the options/modifiers
@T{*}, @id{h}, @id{L}, @id{l}, @id{n},
and @id{p} are not supported
and that there is an extra option, @id{q}.

The @id{q} option formats a string between double quotes,
using escape sequences when necessary to ensure that
it can safely be read back by the Lua interpreter.
For instance, the call
@verbatim{
string.format('%q', 'a string with "quotes" and \n new line')
}
may produce the string:
@verbatim{
"a string with \"quotes\" and \
new line"
}

Options
@id{A}, @id{a}, @id{E}, @id{e}, @id{f},
@id{G}, and @id{g} all expect a number as argument.
Options @id{c}, @id{d},
@id{i}, @id{o}, @id{u}, @id{X}, and @id{x}
expect an integer.
When Lua is compiled with a C89 compiler,
options @id{A} and @id{a} (hexadecimal floats)
do not support any modifier (flags, width, length).

Option @id{s} expects a string;
if its argument is not a string,
it is converted to one following the same rules of @Lid{tostring}.

If the option has any modifier (flags,
 width, length),
the string argument should not contain @x{embedded zeros}.

}

@LibEntry{string.gmatch (s, pattern)|
Returns an iterator function that,
each time it is called,
returns the next captures from @id{pattern} @see{pm}
over the string @id{s}.
If @id{pattern} specifies no captures,
then the whole match is produced in each call.

As an example, the following loop
will iterate over all the words from string @id{s},
printing one per line:
@verbatim{
s = "hello world from Lua"
for w in string.gmatch(s, "%a+") do
 print(w)
end
}
The next example collects all pairs @T{key=value} from the
given string into a table:
@verbatim{
t = {}
s = "from=world, to=Lua"
for k, v in string.gmatch(s, "(%w+)=(%w+)") do
 t[k] = v
end
}

For this function, a caret @Char{^} at the start of a pattern does not
work as an anchor, as this would prevent the iteration.

}

@LibEntry{string.gsub (s, pattern, repl [, n])|
Returns a copy of @id{s}
in which all (or the first @id{n}, if given)
occurrences of
 the @id{pattern} @see{pm} have been
replaced by a replacement string specified by @id{repl},
which can be a string, a table, or a function.
@id{gsub} also returns, as its second value,
the total number of matches that occurred.
The name @id{gsub} comes from @emph{Global SUBstitution}.

If @id{repl} is a string, then its value is used for replacement.
The @N{character @T{%}} works as an escape character:
any sequence in @id{repl} of the form @T{%@rep{d}},
with @rep{d} between 1 and 9,
stands for the value of the @rep{d}-th captured substring.
The sequence @T{%0} stands for the whole match.
The sequence @T{%%} stands for a @N{single @T{%}}.

If @id{repl} is a table, then the table is queried for every match,
using the first capture as the key.

If @id{repl} is a function, then this function is called every time a
match occurs, with all captured substrings passed as arguments,
in order.

In any case,
if the pattern specifies no captures,
then it behaves as if the whole pattern was inside
 a capture.

If the value returned by the table query or by the function call
is a string or a number,
then it is used as the replacement string;
otherwise, if it is @Rw{false} or @nil,
then there is no replacement
(that is, the original match is kept in the string).

Here are some examples:
@verbatim{
```
x = string.gsub("hello world", "(%w+)", "%1 %1")
--> x="hello hello world world"

x = string.gsub("hello world", "%w+", "%0 %0", 1)
--> x="hello hello world"

x = string.gsub("hello world from Lua", "(%w+)%s*(%w+)", "%2 %1")
--> x="world hello Lua from"

x = string.gsub("home = $HOME, user = $USER", "%$(%w+)", os.getenv)
--> x="home = /home/roberto, user = roberto"

x = string.gsub("4+5 = $return 4+5$", "%$(.-)%$", function (s)
     return load(s)()
   end)
--> x="4+5 = 9"

local t = {name="lua", version="5.3"}
```

```
x = string.gsub("$name-$version.tar.gz", "%$(%w+)", t)
--> x="lua-5.3.tar.gz"
}

}

@LibEntry{string.len (s)|
Receives a string and returns its length.
The empty string @T{""} has
 length 0.
Embedded zeros are counted,
so @T{"a\000bc\000"} has length 5.

}

@LibEntry{string.lower (s)|
Receives a string and returns a copy of this string with all
uppercase letters changed to lowercase.
All other characters are left unchanged.
The definition of what an uppercase letter is depends on the current locale.

}

@LibEntry{string.match (s, pattern [, init])|
Looks for the first @emph{match} of
@id{pattern} @see{pm} in the string @id{s}.
If it finds one, then @id{match} returns
the captures from the pattern;
otherwise it returns @nil.
If @id{pattern} specifies no captures,
then the whole match is returned.
A third, optional numeric argument @id{init} specifies
where to start the search;
its default value @N{is 1} and can be negative.

}

@LibEntry{string.pack (fmt, v1, v2, @Cdots)|

Returns a binary string containing the values @id{v1}, @id{v2}, etc.
packed (that is, serialized in binary form)
according to the format string @id{fmt} @see{pack}.

}

@LibEntry{string.packsize
 (fmt)|
```

Returns the size of a string resulting from @Lid{string.pack}
with the given format.
The format string cannot have the variable-length options
@Char{s} or @Char{z} @see{pack}.

}

@LibEntry{string.rep (s, n [, sep])|
Returns a string that is the concatenation of @id{n} copies of
the string @id{s} separated by the string @id{sep}.
The default value for @id{sep} is the empty string
(that is, no separator).
Returns the empty string if @id{n} is not positive.

(Note that it is very easy to exhaust the memory of your machine
with a single call to this function.)

}

@LibEntry{string.reverse (s)|
Returns a string that is the string @id{s} reversed.

}

@LibEntry{string.sub (s, i [, j])|
Returns the substring of @id{s} that
starts at @id{i} and continues until @id{j};
@id{i} and @id{j} can be negative.
If @id{j} is absent, then it is assumed to be equal to @num{-1}
(which is the same as the string length).
In particular,
the call @T{string.sub(s,1,j)} returns a prefix of @id{s}
with
 length @id{j},
and @T{string.sub(s, -i)} (for a positive @id{i})
returns a suffix of @id{s}
with length @id{i}.

If, after the translation of negative indices,
@id{i} is less than 1,
it is corrected to 1.
If @id{j} is greater than the string length,
it is corrected to that length.
If, after these corrections,
@id{i} is greater than @id{j},
the function returns the empty string.

}

@LibEntry{string.unpack (fmt, s [, pos])|

Returns the values packed in string @id{s} @seeF{string.pack}
according to the format string @id{fmt} @see{pack}.
An optional @id{pos} marks where
to start reading in @id{s} (default is 1).
After the read values,
this function also returns the index of the first unread byte in @id{s}.

}

@LibEntry{string.upper (s)|
Receives a string and returns a copy of this string with all
lowercase letters changed to uppercase.
All other characters are left unchanged.
The definition of what a lowercase letter is depends on the current locale.

}

@sect3{pm| @title{Patterns}

Patterns
 in Lua are described by regular strings,
which are interpreted as patterns by the pattern-matching functions
@Lid{string.find},
@Lid{string.gmatch},
@Lid{string.gsub},
and @Lid{string.match}.
This section describes the syntax and the meaning
(that is, what they match) of these strings.

@sect4{@title{Character Class:}
A @def{character class} is used to represent a set of characters.
The following combinations are allowed in describing a character class:
@description{

@item{@rep{x}|
(where @rep{x} is not one of the @emphx{magic characters}
@T{^$()%.[]*+-?})
represents the character @emph{x} itself.
}

@item{@T{.}| (a dot) represents all characters.}

@item{@T{%a}| represents all letters.}

@item{@T{%c}| represents all control characters.}

@item{@T{%d}| represents all digits.}

@item{@T{%g}| represents all printable characters except space.}

@item{@T{%l}| represents all lowercase letters.}

@item{@T{%p}| represents all punctuation characters.}

@item{@T{%s}| represents all space
characters.}

@item{@T{%u}| represents all uppercase letters.}

@item{@T{%w}| represents all alphanumeric characters.}

@item{@T{%x}| represents all hexadecimal digits.}

@item{@T{%@rep{x}}| (where @rep{x} is any non-alphanumeric character)
represents the character @rep{x}.
This is the standard way to escape the magic characters.
Any non-alphanumeric character
(including all punctuation characters, even the non-magical)
can be preceded by a @Char{%}
when used to represent itself in a pattern.
}

@item{@T{[@rep{set}]}|
represents the class which is the union of all
characters in @rep{set}.
A range of characters can be specified by
separating the end characters of the range,
in ascending order, with a @Char{-}.
All classes @T{%}@emph{x} described above can also be used as
components in @rep{set}.
All other characters in @rep{set} represent themselves.
For example, @T{[%w_]} (or @T{[_%w]})
represents all alphanumeric characters plus the underscore,
@T{[0-7]} represents the octal digits,
and
@T{[0-7%l%-]} represents the octal digits plus
the lowercase letters plus the @Char{-} character.

You can put a closing square bracket in a set
by positioning it as the first character in the set.
You can put a hyphen in a set
by positioning it as the first or the last character in the set.

(You can also use an escape for both cases.)

The interaction between ranges and classes is not defined.
Therefore, patterns like @T{[%a-z]} or @T{[a-%%]}
have no meaning.
}

@item{@T{[^@rep{set}]}|
represents the complement of @rep{set},
where @rep{set} is interpreted as above.
}

}
For all classes represented by single letters (@T{%a}, @T{%c}, etc.),
the corresponding uppercase letter represents the complement of the class.
For instance, @T{%S} represents all non-space characters.

The definitions of letter, space, and other character groups
depend on the current locale.
In particular, the class @T{[a-z]} may not be equivalent to @T{%l}.

}

@sect4{@title{Pattern Item:}
A @def{pattern item}
 can be
@itemize{

@item{
a single character class,
which matches any single character in the class;
}

@item{
a single character class followed by @Char{*},
which matches zero or more repetitions of characters in the class.
These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{+},
which matches one or more repetitions of characters in the class.
These repetition items will always match the longest possible sequence;
}

@item{
a single character class followed by @Char{-},
which also matches zero or more repetitions of characters in the class.

Unlike @Char{*},
these repetition items will always match the shortest possible sequence;
}

@item{
a single character class followed by @Char{?},
which matches zero or one occurrence of a character in the class.
It always matches one occurrence if possible;
}

@item{
@T{%@rep{n}}, for @rep{n} between 1 and 9;
such item matches a substring equal to the @rep{n}-th captured string
(see
 below);
}

@item{
@T{%b@rep{xy}}, where @rep{x} and @rep{y} are two distinct characters;
such item matches strings that start @N{with @rep{x}}, end @N{with @rep{y}},
and where the @rep{x} and @rep{y} are @emph{balanced}.
This means that, if one reads the string from left to right,
counting @M{+1} for an @rep{x} and @M{-1} for a @rep{y},
the ending @rep{y} is the first @rep{y} where the count reaches 0.
For instance, the item @T{%b()} matches expressions with
balanced parentheses.
}

@item{
@T{%f[@rep{set}]}, a @def{frontier pattern};
such item matches an empty string at any position such that
the next character belongs to @rep{set}
and the previous character does not belong to @rep{set}.
The set @rep{set} is interpreted as previously described.
The beginning and the end of the subject are handled as if
they were the character @Char{\0}.
}

}

}

@sect4{@title{Pattern:}
A @def{pattern} is a sequence of pattern items.
A caret @Char{^} at the beginning of a pattern anchors the match
 at the
beginning of the subject string.
A @Char{$} at the end of a pattern anchors the match at the

end of the subject string.
At other positions,
@Char{^} and @Char{$} have no special meaning and represent themselves.

}

@sect4{@title{Captures:}
A pattern can contain sub-patterns enclosed in parentheses;
they describe @def{captures}.
When a match succeeds, the substrings of the subject string
that match captures are stored (@emph{captured}) for future use.
Captures are numbered according to their left parentheses.
For instance, in the pattern @T{"(a*(.)%w(%s*))"},
the part of the string matching @T{"a*(.)%w(%s*)"} is
stored as the first capture (and therefore has @N{number 1});
the character matching @St{.} is captured with @N{number 2},
and the part matching @St{%s*} has @N{number 3}.

As a special case, the empty capture @T{()} captures
the current string position (a number).
For instance, if we apply the pattern @T{"()aa()"} on the
string @T{"flaaap"}, there will be two captures:
@N{3 and 5}.

}

}

@sect3{pack| @title{Format Strings for Pack and Unpack}

The first argument to @Lid{string.pack},
@Lid{string.packsize}, and @Lid{string.unpack}
is a format string,
which describes the layout of the structure being created or read.

A format string is a sequence of conversion options.
The conversion options are as follows:
@description{
@item{@T{<}|sets little endian}
@item{@T{>}|sets big endian}
@item{@T{=}|sets native endian}
@item{@T{![@rep{n}]}|sets maximum alignment to @id{n}
(default is native alignment)}
@item{@T{b}|a signed byte (@id{char})}
@item{@T{B}|an unsigned byte (@id{char})}
@item{@T{h}|a signed @id{short} (native size)}
@item{@T{H}|an unsigned @id{short} (native size)}

@item{@T{l}|a signed @id{long} (native size)}
@item{@T{L}|an unsigned @id{long} (native size)}
@item{@T{j}|a @id{lua_Integer}}
@item{@T{J}|a @id{lua_Unsigned}}
@item{@T{T}|a @id{size_t} (native size)}
@item{@T{i[@rep{n}]}|a signed @id{int} with @id{n} bytes
(default is native size)}
@item{@T{I[@rep{n}]}|an
 unsigned @id{int} with @id{n} bytes
(default is native size)}
@item{@T{f}|a @id{float} (native size)}
@item{@T{d}|a @id{double} (native size)}
@item{@T{n}|a @id{lua_Number}}
@item{@T{c@rep{n}}|a fixed-sized string with @id{n} bytes}
@item{@T{z}|a zero-terminated string}
@item{@T{s[@emph{n}]}|a string preceded by its length
coded as an unsigned integer with @id{n} bytes
(default is a @id{size_t})}
@item{@T{x}|one byte of padding}
@item{@T{X@rep{op}}|an empty item that aligns
according to option @id{op}
(which is otherwise ignored)}
@item{@Char{ }|(empty space) ignored}
}
(A @St{[@rep{n}]} means an optional integral numeral.)
Except for padding, spaces, and configurations
(options @St{xX <=>!}),
each option corresponds to an argument (in @Lid{string.pack})
or a result (in @Lid{string.unpack}).

For options @St{!@rep{n}}, @St{s@rep{n}}, @St{i@rep{n}}, and @St{I@rep{n}},
@id{n} can be any integer between 1 and 16.
All integral options check overflows;
@Lid{string.pack}
 checks whether the given value fits in the given size;
@Lid{string.unpack} checks whether the read value fits in a Lua integer.

Any format string starts as if prefixed by @St{!1=},
that is,
with maximum alignment of 1 (no alignment)
and native endianness.

Alignment works as follows:
For each option,
the format gets extra padding until the data starts
at an offset that is a multiple of the minimum between the
option size and the maximum alignment;
this minimum must be a power of 2.

Options @St{c} and @St{z} are not aligned;
option @St{s} follows the alignment of its starting integer.

All padding is filled with zeros by @Lid{string.pack}
(and ignored by @Lid{string.unpack}).

}

}

@sect2{utf8| @title{UTF-8 Support}

This library provides basic support for @x{UTF-8} encoding.
It provides all its functions inside the table @defid{utf8}.
This library does not provide any support for @x{Unicode} other
than the handling of the encoding.
Any operation that needs the meaning of a character,
such
as character classification, is outside its scope.

Unless stated otherwise,
all functions that expect a byte position as a parameter
assume that the given position is either the start of a byte sequence
or one plus the length of the subject string.
As in the string library,
negative indices count from the end of the string.

@LibEntry{utf8.char (@Cdots)|
Receives zero or more integers,
converts each one to its corresponding UTF-8 byte sequence
and returns a string with the concatenation of all these sequences.

}

@LibEntry{utf8.charpattern|
The pattern (a string, not a function) @St{[\0-\x7F\xC2-\xF4][\x80-\xBF]*}
@see{pm},
which matches exactly one UTF-8 byte sequence,
assuming that the subject is a valid UTF-8 string.

}

@LibEntry{utf8.codes (s)|

Returns values so that the construction
@verbatim{
for p, c in utf8.codes(s) do @rep{body} end

}
will iterate over all characters in string @id{s},
with @id{p} being the position (in bytes) and @id{c} the code point
of each
character.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.codepoint (s [, i [, j]])|
Returns the codepoints (as integers) from all characters in @id{s}
that start between byte position @id{i} and @id{j} (both included).
The default for @id{i} is 1 and for @id{j} is @id{i}.
It raises an error if it meets any invalid byte sequence.

}

@LibEntry{utf8.len (s [, i [, j]])|
Returns the number of UTF-8 characters in string @id{s}
that start between positions @id{i} and @id{j} (both inclusive).
The default for @id{i} is @num{1} and for @id{j} is @num{-1}.
If it finds any invalid byte sequence,
returns a false value plus the position of the first invalid byte.

}

@LibEntry{utf8.offset (s, n [, i])|
Returns the position (in bytes) where the encoding of the
@id{n}-th character of @id{s}
(counting from position @id{i}) starts.
A negative @id{n} gets characters before position @id{i}.
The default for @id{i} is 1 when @id{n} is non-negative
and @T{#s + 1} otherwise,
so
that @T{utf8.offset(s, -n)} gets the offset of the
@id{n}-th character from the end of the string.
If the specified character is neither in the subject
nor right after its end,
the function returns @nil.

As a special case,
when @id{n} is 0 the function returns the start of the encoding
of the character that contains the @id{i}-th byte of @id{s}.

This function assumes that @id{s} is a valid UTF-8 string.

}

}

@sect2{tablib| @title{Table Manipulation}

This library provides generic functions for table manipulation.
It provides all its functions inside the table @defid{table}.

Remember that, whenever an operation needs the length of a table,
all caveats about the length operator apply @see{len-op}.
All functions ignore non-numeric keys
in the tables given as arguments.

@LibEntry{table.concat (list [, sep [, i [, j]]])|

Given a list where all elements are strings or numbers,
returns the string @T{list[i]..sep..list[i+1] @Cdots sep..list[j]}.
The default value for @id{sep} is the
 empty string,
the default for @id{i} is 1,
and the default for @id{j} is @T{#list}.
If @id{i} is greater than @id{j}, returns the empty string.

}

@LibEntry{table.insert (list, [pos,] value)|

Inserts element @id{value} at position @id{pos} in @id{list},
shifting up the elements
@T{list[pos], list[pos+1], @Cdots, list[#list]}.
The default value for @id{pos} is @T{#list+1},
so that a call @T{table.insert(t,x)} inserts @id{x} at the end
of list @id{t}.

}

@LibEntry{table.move (a1, f, e, t [,a2])|

Moves elements from table @id{a1} to table @id{a2},
performing the equivalent to the following
multiple assignment:
@T{a2[t],@Cdots = a1[f],@Cdots,a1[e]}.
The default for @id{a2} is @id{a1}.
The destination range can overlap with the source range.
The number of elements to be moved must fit in a Lua integer.

Returns the destination table @id{a2}.

}

@LibEntry{table.pack (@Cdots)|

Returns a new table with all arguments stored into keys 1, 2, etc.
and with a field @St{n} with the total number
 of arguments.
Note that the resulting table may not be a sequence.

}

@LibEntry{table.remove (list [, pos])|

Removes from @id{list} the element at position @id{pos},
returning the value of the removed element.
When @id{pos} is an integer between 1 and @T{#list},
it shifts down the elements
@T{list[pos+1], list[pos+2], @Cdots, list[#list]}
and erases element @T{list[#list]};
The index @id{pos} can also be 0 when @T{#list} is 0,
or @T{#list + 1};
in those cases, the function erases the element @T{list[pos]}.

The default value for @id{pos} is @T{#list},
so that a call @T{table.remove(l)} removes the last element
of list @id{l}.

}

@LibEntry{table.sort (list [, comp])|

Sorts list elements in a given order, @emph{in-place},
from @T{list[1]} to @T{list[#list]}.
If @id{comp} is given,
then it must be a function that receives two list elements
and returns true when the first element must come
before the second in the final order
(so that, after the sort,
@T{i < j} implies @T{not comp(list[j],list[i])}).
If
 @id{comp} is not given,
then the standard Lua operator @T{<} is used instead.

Note that the @id{comp} function must define
a strict partial order over the elements in the list;
that is, it must be asymmetric and transitive.
Otherwise, no valid sort may be possible.

The sort algorithm is not stable:
elements considered equal by the given order
may have their relative positions changed by the sort.

}

@LibEntry{table.unpack (list [, i [, j]])|

Returns the elements from the given list.
This function is equivalent to
@verbatim{
return list[i], list[i+1], @Cdots, list[j]
}
By default, @id{i} @N{is 1} and @id{j} is @T{#list}.

}

}

@sect2{mathlib| @title{Mathematical Functions}

This library provides basic mathematical functions.
It provides all its functions and constants inside the table @defid{math}.
Functions with the annotation @St{integer/float} give
integer results for integer arguments
and float results for float (or mixed) arguments.
Rounding functions
(@Lid{math.ceil},
 @Lid{math.floor}, and @Lid{math.modf})
return an integer when the result fits in the range of an integer,
or a float otherwise.

@LibEntry{math.abs (x)|

Returns the absolute value of @id{x}. (integer/float)

}

@LibEntry{math.acos (x)|

Returns the arc cosine of @id{x} (in radians).

}

@LibEntry{math.asin (x)|

Returns the arc sine of @id{x} (in radians).

}

@LibEntry{math.atan (y [, x])|

@index{atan2}
Returns the arc tangent of @T{y/x} (in radians),
but uses the signs of both arguments to find the
quadrant of the result.
(It also handles correctly the case of @id{x} being zero.)

The default value for @id{x} is 1,
so that the call @T{math.atan(y)}
returns the arc tangent of @id{y}.

}

@LibEntry{math.ceil (x)|

Returns the smallest integral value larger than or equal to @id{x}.

}

@LibEntry{math.cos (x)|

Returns the cosine of @id{x} (assumed to be in radians).

}

@LibEntry{math.deg (x)|

Converts the angle @id{x} from radians to degrees.

}

@LibEntry{math.exp
(x)|

Returns the value @M{e@sp{x}}
(where @id{e} is the base of natural logarithms).

}

@LibEntry{math.floor (x)|

Returns the largest integral value smaller than or equal to @id{x}.

}

@LibEntry{math.fmod (x, y)|

Returns the remainder of the division of @id{x} by @id{y}
that rounds the quotient towards zero. (integer/float)

}

@LibEntry{math.huge|

The float value @idx{HUGE_VAL},
a value larger than any other numeric value.

}

@LibEntry{math.log (x [, base])|

Returns the logarithm of @id{x} in the given base.
The default for @id{base} is @M{e}
(so that the function returns the natural logarithm of @id{x}).

}

@LibEntry{math.max (x, @Cdots)|

Returns the argument with the maximum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.maxinteger|
An integer with the maximum value for an integer.

}

@LibEntry{math.min (x, @Cdots)|

Returns the argument with the minimum value,
according to the Lua operator @T{<}. (integer/float)

}

@LibEntry{math.mininteger|
An
 integer with the minimum value for an integer.

}

@LibEntry{math.modf (x)|

Returns the integral part of @id{x} and the fractional part of @id{x}.
Its second result is always a float.

}

@LibEntry{math.pi|

The value of @M{@pi}.

}

@LibEntry{math.rad (x)|

Converts the angle @id{x} from degrees to radians.

}

@LibEntry{math.random ([m [, n]])|

When called without arguments,
returns a pseudo-random float with uniform distribution
in the range @C{(} @M{[0,1)}. @C{]}
When called with two integers @id{m} and @id{n},
@id{math.random} returns a pseudo-random integer
with uniform distribution in the range @M{[m, n]}.
(The value @M{n-m} cannot be negative and must fit in a Lua integer.)
The call @T{math.random(n)} is equivalent to @T{math.random(1,n)}.

This function is an interface to the underling
pseudo-random generator function provided by C.

}

@LibEntry{math.randomseed (x)|

Sets @id{x} as the @Q{seed}
for the pseudo-random generator:
equal seeds produce equal sequences of
 numbers.

}

@LibEntry{math.sin (x)|

Returns the sine of @id{x} (assumed to be in radians).

}

@LibEntry{math.sqrt (x)|

Returns the square root of @id{x}.
(You can also use the expression @T{x^0.5} to compute this value.)

}

@LibEntry{math.tan (x)|

Returns the tangent of @id{x} (assumed to be in radians).

}

@LibEntry{math.tointeger (x)|

If the value @id{x} is convertible to an integer,
returns that integer.
Otherwise, returns @nil.

}

@LibEntry{math.type (x)|

Returns @St{integer} if @id{x} is an integer,
@St{float} if it is a float,
or @nil if @id{x} is not a number.

}

@LibEntry{math.ult (m, n)|

Returns a boolean,
true if and only if integer @id{m} is below integer @id{n} when
they are compared as @x{unsigned integers}.

}

}

@sect2{iolib| @title{Input and Output Facilities}

The I/O library provides two different styles for file manipulation.
The first one uses implicit file handles;
that is, there are operations to set a default input file and a
default output file,
and

all input/output operations are over these default files.
The second style uses explicit file handles.

When using implicit file handles,
all operations are supplied by table @defid{io}.
When using explicit file handles,
the operation @Lid{io.open} returns a file handle
and then all operations are supplied as methods of the file handle.

The table @id{io} also provides
three predefined file handles with their usual meanings from C:
@defid{io.stdin}, @defid{io.stdout}, and @defid{io.stderr}.
The I/O library never closes these files.

Unless otherwise stated,
all I/O functions return @nil on failure
(plus an error message as a second result and
a system-dependent error code as a third result)
and some value different from @nil on success.
In non-POSIX systems,
the computation of the error message and error code
in case of errors
may be not @x{thread safe},
because they rely on the global C variable @id{errno}.

@LibEntry{io.close ([file])|

Equivalent to @T{file:close()}.
Without a @id{file},
closes the default output file.

}

@LibEntry{io.flush ()|

Equivalent to @T{io.output():flush()}.

}

@LibEntry{io.input ([file])|

When called with a file name, it opens the named file (in text mode),
and sets its handle as the default input file.
When called with a file handle,
it simply sets this file handle as the default input file.
When called without arguments,
it returns the current default input file.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.lines ([filename, @Cdots])|

Opens the given file name in read mode
and returns an iterator function that
works like @T{file:lines(@Cdots)} over the opened file.
When the iterator function detects the end of file,
it returns no values (to finish the loop) and automatically closes the file.

The call @T{io.lines()} (with no file name) is equivalent
to @T{io.input():lines("*l")};
that is, it iterates over the lines of the default input file.
In this case, the iterator does
 not close the file when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{io.open (filename [, mode])|

This function opens a file,
in the mode specified in the string @id{mode}.
In case of success,
it returns a new file handle.

The @id{mode} string can be any of the following:
@description{
@item{@St{r}| read mode (the default);}
@item{@St{w}| write mode;}
@item{@St{a}| append mode;}
@item{@St{r+}| update mode, all previous data is preserved;}
@item{@St{w+}| update mode, all previous data is erased;}
@item{@St{a+}| append update mode, previous data is preserved,
 writing is only allowed at the end of file.}
}
The @id{mode} string can also have a @Char{b} at the end,
which is needed in some systems to open the file in binary mode.

}

@LibEntry{io.output ([file])|

Similar to @Lid{io.input}, but operates over the default output file.

}

@LibEntry{io.popen (prog [, mode])|

This function is system dependent and is not
 available
on all platforms.

Starts program @id{prog} in a separated process and returns
a file handle that you can use to read data from this program
(if @id{mode} is @T{"r"}, the default)
or to write data to this program
(if @id{mode} is @T{"w"}).

}

@LibEntry{io.read (@Cdots)|

Equivalent to @T{io.input():read(@Cdots)}.

}

@LibEntry{io.tmpfile ()|

In case of success,
returns a handle for a temporary file.
This file is opened in update mode
and it is automatically removed when the program ends.

}

@LibEntry{io.type (obj)|

Checks whether @id{obj} is a valid file handle.
Returns the string @T{"file"} if @id{obj} is an open file handle,
@T{"closed file"} if @id{obj} is a closed file handle,
or @nil if @id{obj} is not a file handle.

}

@LibEntry{io.write (@Cdots)|

Equivalent to @T{io.output():write(@Cdots)}.

}

@LibEntry{file:close ()|

Closes @id{file}.
Note that files are automatically closed when
their handles are garbage collected,
but that takes an unpredictable amount of
time to happen.

When closing a file handle created with @Lid{io.popen},
@Lid{file:close} returns the same values
returned by @Lid{os.execute}.

}

@LibEntry{file:flush ()|

Saves any written data to @id{file}.

}

@LibEntry{file:lines (@Cdots)|

Returns an iterator function that,
each time it is called,
reads the file according to the given formats.
When no format is given,
uses @St{l} as a default.
As an example, the construction
@verbatim{
for c in file:lines(1) do @rep{body} end
}
will iterate over all characters of the file,
starting at the current position.
Unlike @Lid{io.lines}, this function does not close the file
when the loop ends.

In case of errors this function raises the error,
instead of returning an error code.

}

@LibEntry{file:read (@Cdots)|

Reads the file @id{file},
according to the given formats, which specify what to read.
For each format,
the function returns a string or a number with the characters read,

or @nil if it cannot read data with the specified format.
(In
 this latter case,
the function does not read subsequent formats.)
When called without formats,
it uses a default format that reads the next line
(see below).

The available formats are
@description{

@item{@St{n}|
reads a numeral and returns it as a float or an integer,
following the lexical conventions of Lua.
(The numeral may have leading spaces and a sign.)
This format always reads the longest input sequence that
is a valid prefix for a numeral;
if that prefix does not form a valid numeral
(e.g., an empty string, @St{0x}, or @St{3.4e-}),
it is discarded and the function returns @nil.
}

@item{@St{a}|
reads the whole file, starting at the current position.
On end of file, it returns the empty string.
}

@item{@St{l}|
reads the next line skipping the end of line,
returning @nil on end of file.
This is the default format.
}

@item{@St{L}|
reads the next line keeping the end-of-line character (if present),
returning @nil on end of file.
}

@item{@emph{number}|
reads a string with
 up to this number of bytes,
returning @nil on end of file.
If @id{number} is zero,
it reads nothing and returns an empty string,
or @nil on end of file.
}

}

The formats @St{l} and @St{L} should be used only for text files.

}

@LibEntry{file:seek ([whence [, offset]])|

Sets and gets the file position,
measured from the beginning of the file,
to the position given by @id{offset} plus a base
specified by the string @id{whence}, as follows:
@description{
@item{@St{set}| base is position 0 (beginning of the file);}
@item{@St{cur}| base is current position;}
@item{@St{end}| base is end of file;}
}
In case of success, @id{seek} returns the final file position,
measured in bytes from the beginning of the file.
If @id{seek} fails, it returns @nil,
plus a string describing the error.

The default value for @id{whence} is @T{"cur"},
and for @id{offset} is 0.
Therefore, the call @T{file:seek()} returns the current
file position, without changing it;
the call @T{file:seek("set")} sets the position
 to the
beginning of the file (and returns 0);
and the call @T{file:seek("end")} sets the position to the
end of the file, and returns its size.

}

@LibEntry{file:setvbuf (mode [, size])|

Sets the buffering mode for an output file.
There are three available modes:
@description{

@item{@St{no}|
no buffering; the result of any output operation appears immediately.
}

@item{@St{full}|
full buffering; output operation is performed only
when the buffer is full or when
you explicitly @T{flush} the file @seeF{io.flush}.
}

@item{@St{line}|
line buffering; output is buffered until a newline is output
or there is any input from some special files
(such as a terminal device).
}

}
For the last two cases, @id{size}
specifies the size of the buffer, in bytes.
The default is an appropriate size.

}

@LibEntry{file:write (@Cdots)|

Writes the value of each of its arguments to @id{file}.
The arguments must be strings or numbers.

In case of success, this function returns @id{file}.
Otherwise it
returns @nil plus a string describing the error.

}

}

@sect2{oslib| @title{Operating System Facilities}

This library is implemented through table @defid{os}.

@LibEntry{os.clock ()|

Returns an approximation of the amount in seconds of CPU time
used by the program.

}

@LibEntry{os.date ([format [, time]])|

Returns a string or a table containing date and time,
formatted according to the given string @id{format}.

If the @id{time} argument is present,
this is the time to be formatted
(see the @Lid{os.time} function for a description of this value).
Otherwise, @id{date} formats the current time.

If @id{format} starts with @Char{!},
then the date is formatted in Coordinated Universal Time.
After this optional character,
if @id{format} is the string @St{*t},
then @id{date} returns a table with the following fields:
@id{year}, @id{month} (1@En{}12), @id{day} (1@En{}31),
@id{hour} (0@En{}23), @id{min} (0@En{}59), @id{sec} (0@En{}61),
@id{wday} (weekday, 1@En{}7, Sunday @N{is 1}),
@id{yday}
(day of the year, 1@En{}366),
and @id{isdst} (daylight saving flag, a boolean).
This last field may be absent
if the information is not available.

If @id{format} is not @St{*t},
then @id{date} returns the date as a string,
formatted according to the same rules as the @ANSI{strftime}.

When called without arguments,
@id{date} returns a reasonable date and time representation that depends on
the host system and on the current locale.
(More specifically, @T{os.date()} is equivalent to @T{os.date("%c")}.)

In non-POSIX systems,
this function may be not @x{thread safe}
because of its reliance on @CId{gmtime} and @CId{localtime}.

}

@LibEntry{os.difftime (t2, t1)|

Returns the difference, in seconds,
from time @id{t1} to time @id{t2}
(where the times are values returned by @Lid{os.time}).
In @x{POSIX}, @x{Windows}, and some other systems,
this value is exactly @id{t2}@M{-}@id{t1}.

}

@LibEntry{os.execute ([command])|

This function is equivalent to the @ANSI{system}.
It passes @id{command}
to be executed by an operating system shell.
Its first result is @true
if the command terminated successfully,
or @nil otherwise.
After this first result

the function returns a string plus a number,
as follows:
@description{

@item{@St{exit}|
the command terminated normally;
the following number is the exit status of the command.
}

@item{@St{signal}|
the command was terminated by a signal;
the following number is the signal that terminated the command.
}

}

When called without a @id{command},
@id{os.execute} returns a boolean that is true if a shell is available.

}

@LibEntry{os.exit ([code [, close]])|

Calls the @ANSI{exit} to terminate the host program.
If @id{code} is @Rw{true},
the returned status is @idx{EXIT_SUCCESS};
if @id{code} is @Rw{false},
the returned status is @idx{EXIT_FAILURE};
if @id{code} is a number,
the returned status is this number.
The default value for @id{code} is @Rw{true}.

If the optional second argument @id{close} is true,
closes the Lua state before
exiting.

}

@LibEntry{os.getenv (varname)|

Returns the value of the process environment variable @id{varname},
or @nil if the variable is not defined.

}

@LibEntry{os.remove (filename)|

Deletes the file (or empty directory, on @x{POSIX} systems)

with the given name.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.rename (oldname, newname)|

Renames the file or directory named @id{oldname} to @id{newname}.
If this function fails, it returns @nil,
plus a string describing the error and the error code.
Otherwise, it returns true.

}

@LibEntry{os.setlocale (locale [, category])|

Sets the current locale of the program.
@id{locale} is a system-dependent string specifying a locale;
@id{category} is an optional string describing which category to change:
@T{"all"}, @T{"collate"}, @T{"ctype"},
@T{"monetary"}, @T{"numeric"}, or @T{"time"};
the default category is @T{"all"}.
The function returns
 the name of the new locale,
or @nil if the request cannot be honored.

If @id{locale} is the empty string,
the current locale is set to an implementation-defined native locale.
If @id{locale} is the string @St{C},
the current locale is set to the standard C locale.

When called with @nil as the first argument,
this function only returns the name of the current locale
for the given category.

This function may be not @x{thread safe}
because of its reliance on @CId{setlocale}.

}

@LibEntry{os.time ([table])|

Returns the current time when called without arguments,
or a time representing the local date and time specified by the given table.
This table must have fields @id{year}, @id{month}, and @id{day},
and may have fields

@id{hour} (default is 12),
@id{min} (default is 0),
@id{sec} (default is 0),
and @id{isdst} (default is @nil).
Other fields are ignored.
For a description of these fields, see the @Lid{os.date} function.

The values in these fields do not need to be inside their valid
ranges.
For instance, if @id{sec} is -10,
it means -10 seconds from the time specified by the other fields;
if @id{hour} is 1000,
it means +1000 hours from the time specified by the other fields.

The returned value is a number, whose meaning depends on your system.
In @x{POSIX}, @x{Windows}, and some other systems,
this number counts the number
of seconds since some given start time (the @Q{epoch}).
In other systems, the meaning is not specified,
and the number returned by @id{time} can be used only as an argument to
@Lid{os.date} and @Lid{os.difftime}.

}

@LibEntry{os.tmpname ()|

Returns a string with a file name that can
be used for a temporary file.
The file must be explicitly opened before its use
and explicitly removed when no longer needed.

In @x{POSIX} systems,
this function also creates a file with that name,
to avoid security risks.
(Someone else might create the file with wrong permissions
in the time between getting the name and creating the file.)
You still have to
open the file to use it
and to remove it (even if you do not use it).

When possible,
you may prefer to use @Lid{io.tmpfile},
which automatically removes the file when the program ends.

}

}

@sect2{debuglib| @title{The Debug Library}

This library provides
the functionality of the @link{debugI|debug interface} to Lua programs.
You should exert care when using this library.
Several of its functions
violate basic assumptions about Lua code
(e.g., that variables local to a function
cannot be accessed from outside;
that userdata metatables cannot be changed by Lua code;
that Lua programs do not crash)
and therefore can compromise otherwise secure code.
Moreover, some functions in this library may be slow.

All functions in this library are provided
inside the @defid{debug} table.
All functions that operate over a thread
have an optional first argument which is the
thread to operate over.
The default is always the current thread.

@LibEntry{debug.debug ()|

Enters an interactive mode with
 the user,
running each string that the user enters.
Using simple commands and other debug facilities,
the user can inspect global and local variables,
change their values, evaluate expressions, and so on.
A line containing only the word @id{cont} finishes this function,
so that the caller continues its execution.

Note that commands for @id{debug.debug} are not lexically nested
within any function and so have no direct access to local variables.

}

@LibEntry{debug.gethook ([thread])|

Returns the current hook settings of the thread, as three values:
the current hook function, the current hook mask,
and the current hook count
(as set by the @Lid{debug.sethook} function).

}

@LibEntry{debug.getinfo ([thread,] f [, what])|

Returns a table with information about a function.
You can give the function directly
or you can give a number as the value of @id{f},
which means the function running at level @id{f} of the call stack
of the given thread:
@N{level 0} is the current function (@id{getinfo}
itself);
@N{level 1} is the function that called @id{getinfo}
(except for tail calls, which do not count on the stack);
and so on.
If @id{f} is a number larger than the number of active functions,
then @id{getinfo} returns @nil.

The returned table can contain all the fields returned by @Lid{lua_getinfo},
with the string @id{what} describing which fields to fill in.
The default for @id{what} is to get all information available,
except the table of valid lines.
If present,
the option @Char{f}
adds a field named @id{func} with the function itself.
If present,
the option @Char{L}
adds a field named @id{activelines} with the table of
valid lines.

For instance, the expression @T{debug.getinfo(1,"n").name} returns
a name for the current function,
if a reasonable name can be found,
and the expression @T{debug.getinfo(print)}
returns a table with all available information
about the @Lid{print} function.

}

@LibEntry{debug.getlocal ([thread,] f, local)|

This function returns the name
and the value of the local variable
with index @id{local} of the function at level @id{f} of the stack.
This function accesses not only explicit local variables,
but also parameters, temporaries, etc.

The first parameter or local variable has @N{index 1}, and so on,
following the order that they are declared in the code,
counting only the variables that are active
in the current scope of the function.
Negative indices refer to vararg arguments;

@num{-1} is the first vararg argument.
The function returns @nil if there is no variable with the given index,
and raises an error when called with a level out of range.
(You can call @Lid{debug.getinfo} to check whether the level is valid.)

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(internal variables such as loop control variables,
and variables from chunks saved without debug information).

The parameter @id{f} may also be a function.
In that case, @id{getlocal} returns only the
name of function parameters.

}

@LibEntry{debug.getmetatable (value)|

Returns the metatable of the given @id{value}
or @nil if it does not have a metatable.

}

@LibEntry{debug.getregistry ()|

Returns the registry table @see{registry}.

}

@LibEntry{debug.getupvalue (f, up)|

This function returns the name and the value of the upvalue
with index @id{up} of the function @id{f}.
The function returns @nil if there is no upvalue with the given index.

Variable names starting with @Char{(} (open parenthesis) @C{)}
represent variables with no known names
(variables from chunks saved without debug information).

}

@LibEntry{debug.getuservalue (u)|

Returns the Lua value associated to @id{u}.
If @id{u} is not a full userdata,
returns @nil.

}

@LibEntry{debug.sethook ([thread,] hook, mask [, count])|

Sets the given function as a hook.
The string @id{mask} and the number @id{count} describe
when the hook will be called.
The string mask may have any combination of the following characters,
with
 the given meaning:
@description{
@item{@Char{c}| the hook is called every time Lua calls a function;}
@item{@Char{r}| the hook is called every time Lua returns from a function;}
@item{@Char{l}| the hook is called every time Lua enters a new line of code.}
}
Moreover,
with a @id{count} different from zero,
the hook is called also after every @id{count} instructions.

When called without arguments,
@Lid{debug.sethook} turns off the hook.

When the hook is called, its first argument is a string
describing the event that has triggered its call:
@T{"call"} (or @T{"tail call"}),
@T{"return"},
@T{"line"}, and @T{"count"}.
For line events,
the hook also gets the new line number as its second parameter.
Inside a hook,
you can call @id{getinfo} with @N{level 2} to get more information about
the running function
(@N{level 0} is the @id{getinfo} function,
and @N{level 1} is the hook function).

}

@LibEntry{debug.setlocal ([thread,] level, local, value)|

This function assigns the value @id{value}
 to the local variable
with index @id{local} of the function at level @id{level} of the stack.
The function returns @nil if there is no local
variable with the given index,
and raises an error when called with a @id{level} out of range.
(You can call @id{getinfo} to check whether the level is valid.)
Otherwise, it returns the name of the local variable.

See @Lid{debug.getlocal} for more information about

variable indices and names.

}

@LibEntry{debug.setmetatable (value, table)|

Sets the metatable for the given @id{value} to the given @id{table}
(which can be @nil).
Returns @id{value}.

}

@LibEntry{debug.setupvalue (f, up, value)|

This function assigns the value @id{value} to the upvalue
with index @id{up} of the function @id{f}.
The function returns @nil if there is no upvalue
with the given index.
Otherwise, it returns the name of the upvalue.

}

@LibEntry{debug.setuservalue (udata, value)|

Sets the given @id{value} as
the Lua value associated to the given @id{udata}.
@id{udata}
must be a full userdata.

Returns @id{udata}.

}

@LibEntry{debug.traceback ([thread,] [message [, level]])|

If @id{message} is present but is neither a string nor @nil,
this function returns @id{message} without further processing.
Otherwise,
it returns a string with a traceback of the call stack.
The optional @id{message} string is appended
at the beginning of the traceback.
An optional @id{level} number tells at which level
to start the traceback
(default is 1, the function calling @id{traceback}).

}

@LibEntry{debug.upvalueid (f, n)|

Returns a unique identifier (as a light userdata)
for the upvalue numbered @id{n}
from the given function.

These unique identifiers allow a program to check whether different
closures share upvalues.
Lua closures that share an upvalue
(that is, that access a same external local variable)
will return identical ids for those upvalue indices.

}

@LibEntry{debug.upvaluejoin (f1, n1, f2, n2)|

Make the @id{n1}-th upvalue of the Lua closure @id{f1}
refer
 to the @id{n2}-th upvalue of the Lua closure @id{f2}.

}

}

}

@C{----------}
@sect1{lua-sa| @title{Lua Standalone}

Although Lua has been designed as an extension language,
to be embedded in a host @N{C program},
it is also frequently used as a standalone language.
An interpreter for Lua as a standalone language,
called simply @id{lua},
is provided with the standard distribution.
The @x{standalone interpreter} includes
all standard libraries, including the debug library.
Its usage is:
@verbatim{
lua [options] [script [args]]
}
The options are:
@description{
@item{@T{-e @rep{stat}}| executes string @rep{stat};}
@item{@T{-l @rep{mod}}| @Q{requires} @rep{mod} and assigns the
 result to global @@rep{mod};}
@item{@T{-i}| enters interactive mode after running @rep{script};}
@item{@T{-v}| prints version information;}

@item{@T{-E}| ignores environment variables;}
@item{@T{--}| stops handling options;}
@item{@T{-}| executes
 @id{stdin} as a file and stops handling options.}
}
After handling its options, @id{lua} runs the given @emph{script}.
When called without arguments,
@id{lua} behaves as @T{lua -v -i}
when the standard input (@id{stdin}) is a terminal,
and as @T{lua -} otherwise.

When called without option @T{-E},
the interpreter checks for an environment variable @defid{LUA_INIT_5_3}
(or @defid{LUA_INIT} if the versioned name is not defined)
before running any argument.
If the variable content has the format @T{@At@rep{filename}},
then @id{lua} executes the file.
Otherwise, @id{lua} executes the string itself.

When called with option @T{-E},
besides ignoring @id{LUA_INIT},
Lua also ignores
the values of @id{LUA_PATH} and @id{LUA_CPATH},
setting the values of
@Lid{package.path} and @Lid{package.cpath}
with the default paths defined in @id{luaconf.h}.

All options are handled in order, except @T{-i} and @T{-E}.
For instance, an invocation like
@verbatim{
$ lua -e'a=1' -e 'print(a)' script.lua
}
will
 first set @id{a} to 1, then print the value of @id{a},
and finally run the file @id{script.lua} with no arguments.
(Here @T{$} is the shell prompt. Your prompt may be different.)

Before running any code,
@id{lua} collects all command-line arguments
in a global table called @id{arg}.
The script name goes to index 0,
the first argument after the script name goes to index 1,
and so on.
Any arguments before the script name
(that is, the interpreter name plus its options)
go to negative indices.
For instance, in the call
@verbatim{

$ lua -la b.lua t1 t2
}
the table is like this:
@verbatim{
arg = { [-2] = "lua", [-1] = "-la",
    [0] = "b.lua",
    [1] = "t1", [2] = "t2" }
}
If there is no script in the call,
the interpreter name goes to index 0,
followed by the other arguments.
For instance, the call
@verbatim{
$ lua -e "print(arg[1])"
}
will print @St{-e}.
If there is a script,
the script is called with arguments
@T{arg[1]}, @Cdots, @T{arg[#arg]}.
(Like all chunks in Lua,
the
 script is compiled as a vararg function.)

In interactive mode,
Lua repeatedly prompts and waits for a line.
After reading a line,
Lua first try to interpret the line as an expression.
If it succeeds, it prints its value.
Otherwise, it interprets the line as a statement.
If you write an incomplete statement,
the interpreter waits for its completion
by issuing a different prompt.

If the global variable @defid{_PROMPT} contains a string,
then its value is used as the prompt.
Similarly, if the global variable @defid{_PROMPT2} contains a string,
its value is used as the secondary prompt
(issued during incomplete statements).

In case of unprotected errors in the script,
the interpreter reports the error to the standard error stream.
If the error object is not a string but
has a metamethod @idx{__tostring},
the interpreter calls this metamethod to produce the final message.
Otherwise, the interpreter converts the error object to a string
and adds a stack traceback to it.

When finishing normally,

the
interpreter closes its main Lua state
@seeF{lua_close}.
The script can avoid this step by
calling @Lid{os.exit} to terminate.

To allow the use of Lua as a
script interpreter in Unix systems,
the standalone interpreter skips
the first line of a chunk if it starts with @T{#}.
Therefore, Lua scripts can be made into executable programs
by using @T{chmod +x} and @N{the @T{#!}} form,
as in
@verbatim{
#!/usr/local/bin/lua
}
(Of course,
the location of the Lua interpreter may be different in your machine.
If @id{lua} is in your @id{PATH},
then
@verbatim{
#!/usr/bin/env lua
}
is a more portable solution.)

}

@sect1{incompat| @title{Incompatibilities with the Previous Version}

Here we list the incompatibilities that you may find when moving a program
from @N{Lua 5.2} to @N{Lua 5.3}.
You can avoid some incompatibilities by compiling Lua with
appropriate options (see file @id{luaconf.h}).
However,
all these compatibility options will be removed in the future.

Lua versions can always
change the C API in ways that
do not imply source-code changes in a program,
such as the numeric values for constants
or the implementation of functions as macros.
Therefore,
you should not assume that binaries are compatible between
different Lua versions.
Always recompile clients of the Lua API when
using a new version.

Similarly, Lua versions can always change the internal representation
of precompiled chunks;
precompiled chunks are not compatible between different Lua versions.

The standard paths in the official distribution may
change between versions.

@sect2{@title{Changes in the Language}
@itemize{

@item{
The main difference between @N{Lua 5.2} and @N{Lua 5.3} is the
introduction of an integer subtype for numbers.
Although this change should not affect @Q{normal} computations,
some computations
(mainly those that involve some kind of overflow)
can give different results.

You can fix these differences by forcing a number to be a float
(in @N{Lua 5.2} all numbers were float),
in
 particular writing constants with an ending @T{.0}
or using @T{x = x + 0.0} to convert a variable.
(This recommendation is only for a quick fix
for an occasional incompatibility;
it is not a general guideline for good programming.
For good programming,
use floats where you need floats
and integers where you need integers.)
}

@item{
The conversion of a float to a string now adds a @T{.0} suffix
to the result if it looks like an integer.
(For instance, the float 2.0 will be printed as @T{2.0},
not as @T{2}.)
You should always use an explicit format
when you need a specific format for numbers.

(Formally this is not an incompatibility,
because Lua does not specify how numbers are formatted as strings,
but some programs assumed a specific format.)
}

@item{
The generational mode for the garbage collector was removed.
(It was an experimental feature in @N{Lua 5.2}.)
}

```
}

}

@sect2{@title{Changes in the Libraries}
@itemize{

@item{
The @id{bit32} library has been deprecated.
It is
 easy to require a compatible external library or,
better yet, to replace its functions with appropriate bitwise operations.
(Keep in mind that @id{bit32} operates on 32-bit integers,
while the bitwise operators in @N{Lua 5.3} operate on Lua integers,
which by default have @N{64 bits}.)
}

@item{
The Table library now respects metamethods
for setting and getting elements.
}

@item{
The @Lid{ipairs} iterator now respects metamethods and
its @idx{__ipairs} metamethod has been deprecated.
}


@item{
Option names in @Lid{io.read} do not have a starting @Char{*} anymore.
For compatibility, Lua will continue to accept (and ignore) this character.
}

@item{
The following functions were deprecated in the mathematical library:
@id{atan2}, @id{cosh}, @id{sinh}, @id{tanh}, @id{pow},
@id{frexp}, and @id{ldexp}.
You can replace @T{math.pow(x,y)} with @T{x^y};
you can replace @id{math.atan2} with @id{math.atan},
which now accepts one or two arguments;
you can replace @T{math.ldexp(x,exp)} with @T{x
 * 2.0^exp}.
For the other operations,
you can either use an external library or
implement them in Lua.
}
```

@item{
The searcher for C loaders used by @Lid{require}
changed the way it handles versioned names.
Now, the version should come after the module name
(as is usual in most other tools).
For compatibility, that searcher still tries the old format
if it cannot find an open function according to the new style.
(@N{Lua 5.2} already worked that way,
but it did not document the change.)
}

@item{
The call @T{collectgarbage("count")} now returns only one result.
(You can compute that second result from the fractional part
of the first result.)
}

}

}

@sect2{@title{Changes in the API}

@itemize{

@item{
Continuation functions now receive as arguments what they needed
to get through @id{lua_getctx},
so @id{lua_getctx} has been removed.
Adapt your code accordingly.
}

@item{
Function @Lid{lua_dump} has an extra parameter, @id{strip}.
Use 0 as the value of this parameter to get the old behavior.
}

@item{
Functions
 to inject/project unsigned integers
(@id{lua_pushunsigned}, @id{lua_tounsigned}, @id{lua_tounsignedx},
@id{luaL_checkunsigned}, @id{luaL_optunsigned})
were deprecated.
Use their signed equivalents with a type cast.
}

@item{
Macros to project non-default integer types

```
(@id{luaL_checkint}, @id{luaL_optint}, @id{luaL_checklong}, @id{luaL_optlong})
were deprecated.
Use their equivalent over @Lid{lua_Integer} with a type cast
(or, when possible, use @Lid{lua_Integer} in your code).
}

}

}

}


@C{[==============================================================}

@sect1{BNF| @title{The Complete Syntax of Lua}

Here is the complete syntax of Lua in extended BNF.
As usual in extended BNF,
@bnfNter{{A}} means 0 or more @bnfNter{A}s,
and @bnfNter{[A]} means an optional @bnfNter{A}.
(For operator precedences, see @See{prec};
for a description of the terminals
@bnfNter{Name}, @bnfNter{Numeral},
and @bnfNter{LiteralString}, see @See{lexical}.)
@index{grammar}

@Produc{

@producname{chunk}@producbody{block}

@producname{block}@producbody{@bnfrep{stat}
 @bnfopt{retstat}}

@producname{stat}@producbody{
 @bnfter{;}
@OrNL varlist @bnfter{=} explist
@OrNL functioncall
@OrNL label
@OrNL   @Rw{break}
@OrNL   @Rw{goto} Name
@OrNL @Rw{do} block @Rw{end}
@OrNL @Rw{while} exp @Rw{do} block @Rw{end}
@OrNL @Rw{repeat} block @Rw{until} exp
@OrNL @Rw{if} exp @Rw{then} block
 @bnfrep{@Rw{elseif} exp @Rw{then} block}
 @bnfopt{@Rw{else} block} @Rw{end}
@OrNL @Rw{for} @bnfNter{Name} @bnfter{=} exp @bnfter{,} exp @bnfopt{@bnfter{,} exp}
```

```
 @Rw{do} block @Rw{end}
@OrNL   @Rw{for} namelist @Rw{in} explist @Rw{do} block @Rw{end}
@OrNL @Rw{function} funcname funcbody
@OrNL @Rw{local} @Rw{function} @bnfNter{Name} funcbody
@OrNL @Rw{local} namelist @bnfopt{@bnfter{=} explist}
}

@producname{retstat}@producbody{@Rw{return}
                        @bnfopt{explist} @bnfopt{@bnfter{;}}}

@producname{label}@producbody{@bnfter{::} Name @bnfter{::}}

@producname{funcname}@producbody{@bnfNter{Name}
 @bnfrep{@bnfter{.} @bnfNter{Name}}
                     @bnfopt{@bnfter{:} @bnfNter{Name}}}

@producname{varlist}@producbody{var @bnfrep{@bnfter{,} var}}

@producname{var}@producbody{
 @bnfNter{Name}
@Or prefixexp @bnfter{[} exp @bnfter{]}
@Or prefixexp @bnfter{.} @bnfNter{Name}
}

@producname{namelist}@producbody{@bnfNter{Name} @bnfrep{@bnfter{,} @bnfNter{Name}}}


@producname{explist}@producbody{exp @bnfrep{@bnfter{,} exp}}

@producname{exp}@producbody{
 @Rw{nil}
@Or @Rw{false}
@Or @Rw{true}
@Or @bnfNter{Numeral}
@Or @bnfNter{LiteralString}
@Or @bnfter{...}
@Or functiondef
@OrNL prefixexp
@Or tableconstructor
@Or exp binop exp
@Or unop exp
}

@producname{prefixexp}@producbody{var @Or functioncall @Or @bnfter{(} exp @bnfter{)}}

@producname{functioncall}@producbody{
 prefixexp args
@Or prefixexp @bnfter{:} @bnfNter{Name} args
```

```
}

@producname{args}@producbody{
 @bnfter{(} @bnfopt{explist} @bnfter{)}
@Or tableconstructor
@Or @bnfNter{LiteralString}
}

@producname{functiondef}@producbody{@Rw{function}
 funcbody}

@producname{funcbody}@producbody{@bnfter{(} @bnfopt{parlist} @bnfter{)} block @Rw{end}}

@producname{parlist}@producbody{namelist @bnfopt{@bnfter{,} @bnfter{...}}
 @Or @bnfter{...}}

@producname{tableconstructor}@producbody{@bnfter{@Open} @bnfopt{fieldlist} @bnfter{@Close}}

@producname{fieldlist}@producbody{field @bnfrep{fieldsep field} @bnfopt{fieldsep}}

@producname{field}@producbody{@bnfter{[} exp @bnfter{]} @bnfter{=} exp @Or @bnfNter{Name}
@bnfter{=} exp @Or exp}

@producname{fieldsep}@producbody{@bnfter{,} @Or @bnfter{;}}

@producname{binop}@producbody{
 @bnfter{+} @Or @bnfter{-} @Or @bnfter{*} @Or @bnfter{/} @Or @bnfter{//}
   @Or @bnfter{^} @Or @bnfter{%}
      @OrNL
 @bnfter{&} @Or @bnfter{~} @Or @bnfter{|} @Or @bnfter{>>} @Or @bnfter{<<}
   @Or @bnfter{..}
      @OrNL
 @bnfter{<} @Or @bnfter{<=} @Or @bnfter{>} @Or @bnfter{>=}
   @Or @bnfter{==} @Or @bnfter{~=}
      @OrNL
 @Rw{and} @Or @Rw{or}}

@producname{unop}@producbody{@bnfter{-}
 @Or @Rw{not} @Or @bnfter{#} @Or
 @bnfter{~}}

}

}

@C{]==============================================================}

}
```

@C{}]----------}

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1.285 lmdb 0.9.24-1build2

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1.286 jansson 2.13.1-1.1build3

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

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

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* java.sun.security.ssl

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

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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1.297 ecj 3.26.0

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*          bug 292478 - Report potentially null across variable assignment
*          bug 332637 - Dead Code detection removing code that isn't dead
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 421035 - [resource]
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
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```
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
```

*	Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*	bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*	bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*	bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*	Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug
400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 431581 - Eclipse compiles what it should not
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 446442 - [1.8] merge null annotations from
super methods
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Sebastian Zarnekow - Contributions
for
* bug 544921 - [performance] Poor performance with large source files
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBinding.java
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* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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* bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
* bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
* bug 383690 - [compiler] location of error re uninitialized final field should be aligned
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
* bug 386692 - Missing "unused" warning on "autowired" fields
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConstructorDeclaration.java
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* Stephan Herrmann - Contributions for
* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
* Bug 388630 - @NonNull diagnostics at line 0
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 424727 - [compiler][null] NullPointerException

in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java
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* Contributors:
* wharley@bea.com - initial API and implementation
* philippe.marschall@netcetera.ch - Fix for 338370
* IBM Corporation - Fix for validating relative name
**********/

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*     IBM Corporation - Contribution for bug 188796
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/BatchCompilerRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
* bug 292478 - Report potentially null across variable assignment
* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
* bug 354554 - [null] conditional with redundant condition
yields weak error message
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
**********/

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* Jesper Steen Moller - Contributions for:
* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 345305 - [compiler][null]
Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
**********/

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* Bug 407191 - [1.8] Binary access support for type annotations
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                       Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*                       Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 434556 - Broken class file generated for incorrect annotation usage
*                       Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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* Bug 407191 - [1.8] Binary access support for type annotations
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```
*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
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*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
```

*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*	Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*	Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*	Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*	Bug 446442 - [1.8] merge null annotations from super methods
*	Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*	Jesper S Moller - Contributions for
*	bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*	bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*	bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*	Till Brychcy - Contributions for
*	bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
**********/

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*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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* IBM Corporation - Java 8 support
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
***/

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Stephan Herrmann - Contribution for
* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
***/

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path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java

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* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 358903 - Filter practically unimportant resource leak warnings
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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* bug 384380 - False positive on a "Potential null pointer access" after a continue
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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* Perry James - nullStatus method improvement (165346)
* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
* Bug 440282 - [resource] Resource leak detection false negative with empty finally block
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*   bug 390883 - [1.8][compiler] Unable to override default method
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*   bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*   bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*   bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*   Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*   Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *   Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*   Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

```
*       Bug 446442 - [1.8] merge null annotations from super methods
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*     Stephan Herrmann - Contributions for
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 364890 - BinaryTypeBinding should use char constants from Util
*       bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 388800 - [1.8][compiler] detect default methods in class files
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 454182 - Internal compiler error when using
```

1.8 compliance for simple project
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Sebastian Zarnekow - Contributions for
* bug 544921 - [performance] Poor performance with large source files
* Alexander Lehmann - Contributions for
* bug 566258 - Intermittent NPE in APT RoundDispatcher
**********/

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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug
422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* IBM Corporation - initial API and implementation
* IBM Corporation - fix for 342936
* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Frits Jalvingh - fix for bug 533830.
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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect
'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]

NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*		Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

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* Contributors:
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*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 407191 - [1.8] Binary access support for type annotations
**********/

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*	Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*	Bug 473178
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 458396 - NPE in CodeStream.invoke()
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Genady Beriozkin - added support for reporting assignment with no effect
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing
try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing
warning about redundant null check
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
***/

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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 -
[1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 292478 - Report potentially null across variable assignment,
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
info cannot be null
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Jesper S Moller - <jesper@selskabet.org> - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 378674 - "The method can be declared as static" is wrong

```
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*                       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*     IBM Corporation - Bug fixes
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
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*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 388281 - [compiler][null] inheritance of null annotations as an option
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*******************************************************************************/
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*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests
can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 437072 - [compiler][null] Null analysis
emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
*   Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
*   Jesper S Møller <jesper@selskabet.org> - Contributions for
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 328281 - visibility leaks not detected when analyzing unused field in private class
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java
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* IBM Corporation - Java 8 support
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/RecordComponent.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
*

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
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* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Stephan Herrmann - Contribution for
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
***/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BinaryExpression.java
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* Stephan Herrmann - Contribution for
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

```
*                       Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*    Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*    Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java
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*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 458396 - NPE in CodeStream.invoke()
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/VariableBinding.java
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
```

```
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions
 for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
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* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Stephan Herrmann - Contribution for
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 446442 - [1.8] merge null annotations from super methods
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*    IBM Corporation - fix for 342598
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*     Stephan Herrmann - Contributions for
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*******************************************************************************/
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*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*******************************************************************************/
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*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*                    Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
expressions
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*    Stephan Herrmann - Contribution for
*       bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427438
 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*       Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 438945 - [1.8] NullPointerException
 InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
```

```
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
```

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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*       Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*       Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                        Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                        Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                        Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
```

```
*                    Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                    Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                    Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                    Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
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*     Stephan Herrmann - Contribution for
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
```

```
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 401030 - [1.8][null] Null analysis support for lambda methods.
```

*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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*	bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*	bug 292478 - Report potentially null across variable assignment
*	bug 335093 - [compiler][null] minimal hook for future null annotation support
*	bug 349326 - [1.7] new warning for missing try-with-resources
*	bug 186342 - [compiler][null] Using annotations for null checking
*	bug 358903 - Filter practically unimportant resource leak warnings
*	bug 370639 - [compiler][resource] restore the default for resource leak warnings
*	bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*	bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*	bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*	bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*	Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 430150 - [1.8][null] stricter checking against type variables
*	Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*	Jesper S Moller - Contributions for
*	Bug 378674 - "The method can be declared as static" is wrong
*	Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*	Bug 529556 - [18.3] Add content assist support for 'var' as a type
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*	Bug 426616 - [1.8][compiler] Type Annotations, multiple problems

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* wharley@bea.com - derived base class from BatchMessagerImpl
*
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*        Bug 440474 - [null] textual encoding of external null annotations
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*        bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*        Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type
 annotations after bug 392099
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434600 - Incorrect null analysis error reporting on type parameters
*        Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*        Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*        Andy Clement - Contributions for
*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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work)
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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*     Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*     Stephan Herrmann - Contributions for
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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*          bug 325755 - [compiler] wrong initialization state after conditional expression
*          bug 320170 - [compiler] [null] Whitebox issues in null analysis
*          bug 292478 - Report potentially null across variable assignment
*          bug 332637 - Dead Code detection removing code that isn't dead
*          bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *          bug 349326 - [1.7] new warning for missing try-with-resources
*      bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*      bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*      bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*      Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*      Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*      Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties

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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
* Bug 456924 - StackOverflowError during compilation
* Bug 462790 - [null] NPE in Expression.computeConversion()
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* Contributors:

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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*          Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*          Bug 354536 - compiling package-info.java still depends on the order of compilation units
*          Bug 349326 - [1.7] new warning for missing try-with-resources
*          Bug
 358903 - Filter practically unimportant resource leak warnings
*       Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*       Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
 Contributions for
*                    Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*     het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*       bug 365519 - editorial cleanup after bug 186342
```

and bug 365387
*	bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*	bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*	bug 366063 - Compiler should not add synthetic @NonNull annotations
*	bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*	bug 386356 - Type mismatch error with annotations and generics
*	bug 388281 - [compiler][null] inheritance of null annotations as an option
*	bug 331649 - [compiler][null] consider null annotations for fields
*	bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*	bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*	Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*	Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*	Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*	Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*	Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*	Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*	Bug 441693 - [1.8][null]
Bogus warning for type argument annotated with @NonNull
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*	Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*	Jesper S Moller <jesper@selskabet.org> - Contributions for
*	Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	Till Brychcy - Contributions for
*	bug 415269 - NonNullByDefault is not always inherited to nested classes
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*	Sebastian Zarnekow - Contributions
for
*	bug 544921 - [performance] Poor performance with large source files
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* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
**********/

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* Contributors:
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* bug 407191 - [1.8] Binary access support for type annotations
* Stephan Herrmann - Contribution for
* Bug 440474 - [null] textual encoding of external null annotations
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 376053 - [compiler][resource] Strange potential resource leak problems
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 393719 - [compiler] inconsistent warnings on iteration
variables
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null

* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug
392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs
special treatment
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains

*	Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*	Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*	bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*	Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*	bug 386692 - Missing "unused" warning on "autowired" fields
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java
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*	Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*	Stephan Herrmann - Contributions for
*	bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*	bug 349326 - [1.7] new warning for missing try-with-resources
*	bug 186342 - [compiler][null] Using annotations for null checking
*	bug 358903 - Filter practically unimportant resource leak warnings
*	bug
370639 - [compiler][resource] restore the default for resource leak warnings
*	bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*	bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*	bug 379784 - [compiler] "Method can be static" is not getting reported
*	bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super
class.
*	bug 388281 - [compiler][null] inheritance of null annotations as an option
*	bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*	bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*	bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*	bug 331649 - [compiler][null] consider null annotations for fields
*	bug 383368 - [compiler][null] syntactic null
analysis for field references
*	bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*	bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*	bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*	bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*	bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred

checking
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*	Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*	Bug 417295 - [1.8[[null] Massage type annotated null analysis
 to gel well with deep encoded type bindings.
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*	Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*	Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*	Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*	Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*	Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*	Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*	Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*	Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*	Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*	Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*	Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*	Bug 470958 - [1.8] Unable to convert lambda
*	Bug 410218 - Optional warning
 for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper S Moller - Contributions for
*	Bug 378674 - "The method can be declared as static" is wrong
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*	Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java
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* Stephan Herrmann - Contributions for
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug
383368 - [compiler][null] syntactic null analysis for field references
* bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
null annotations
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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* Contributors:
*    IBM Corporation - initial API and implementation
*    IBM Corporation - Fix for bug 328575
*    het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
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* Contributors:
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406973 - [compiler] Parse MethodParameters attribute
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* Contributors:
* tyeung@bea.com - initial API and implementation
* IBM Corporation - fix for bug 342757
* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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* Contributors:
* Stephan Herrmann - initial API and implementation
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
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*     Stephan Herrmann - Contribution for
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*******************************************************************************/
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*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann - Contribution for
*           bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*       bug 388954 - [1.8][compiler] detect default methods in class files
```

```
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*       bug 390883 - [1.8][compiler] Unable to override default method
*       bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*       bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*       bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*       bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*       Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java
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* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
* Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
* Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac

```
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* Contributors:
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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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* Gauthier JACQUES - initial API and implementation
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the
default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424415 - [1.8][compiler] Eventual
resolution of ReferenceExpression is not seen to be happening.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

```
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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*    IBM Corporation - Bug 513790
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*         bug 186342 - [compiler][null] Using annotations for null checking
*       bug 387612 - Unreachable catch block...exception is never thrown from the try
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*       bug 401271 - StackOverflowError
 when searching for a methods references
*       bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*       Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
```

* Bug 413958 - Function override returning inherited Generic Type
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler]
Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc)
aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

*	Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*	Bug 559618 - No compiler warning for import from same package
*	Bug 560630 - No warning on unused import on class from same package
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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*   Stephan Herrmann - Contribution for
*   bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*   Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*   Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* Contributors:
* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Tom Tromey - Contribution for bug 125961
* Tom Tromey - Contribution for bug 159641
* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 359721 - [options] add command line option
 for new warning token "resource"
* bug 365208 - [compiler][batch] command line options for annotation based null analysis
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
* Jesper S Moller - Contributions for
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
* Mat Booth - Contribution for bug 405176
* Frits Jalvingh -
 fix for bug 533830.
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/Main.java
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*Contributors:
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* Stephan Herrmann - Contribution for
* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Initializer.java
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* Contributors:
*     Stephan Herrmann - initial API and implementation
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceVariable.java
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*
* Contributors:
*     IBM Corporation - initial API and implementation
*      Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*       bug 317046 - Exception during debugging when hover mouse over a field
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
```

```
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
 *       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java
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*
* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Options.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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*
* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
* het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
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* Contributors:
* Andrey Loskutov <loskutov@gmx.de> - initial API and implementation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/CtSym.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModulePathEntry.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java

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*
* Contributors:
*     Stephan Herrmann - initial API and implementation
*     Till Brychcy - Contributions for
*                         Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Frits Jalvingh - fix for bug 533830.
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompiler.java
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 417295 - [1.8[[null] Massage type annotated
 null analysis to gel well with deep encoded type bindings.
*        Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*     Stephan Herrmann - Contributions for
*        bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*        bug 374605 - Unreasonable warning for enum-based switch statements
*        bug 393719 - [compiler] inconsistent warnings on iteration variables
*        bug 382353 - [1.8][compiler] Implementation property modifiers
```

should be accepted on default methods.
* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
* bug 401035 - [1.8] A few tests have started failing recently
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 393192 - Incomplete type hierarchy with > 10 annotations
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
**********/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*         NonStaticAccessToStaticField
*         NonStaticAccessToStaticMethod
*         Task
*         ExpressionShouldBeAVariable
*         AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*         TooManySyntheticArgumentSlots
*         TooManyArrayDimensions
*         TooManyBytesForStringConstant
*         TooManyMethods
*         TooManyFields
 *         NonBlankFinalLocalAssignment
*         ObjectCannotHaveSuperTypes
*         MissingSemiColon
*         InvalidParenthesizedExpression
*         EnclosingInstanceInConstructorCall
*         BytecodeExceeds64KLimitForConstructor
*         IncompatibleReturnTypeForNonInheritedInterfaceMethod
*         UnusedPrivateMethod
*         UnusedPrivateConstructor
*         UnusedPrivateType
*         UnusedPrivateField
*         IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*         InvalidExplicitConstructorCall
*     IBM Corporation - added the following constants
*         PossibleAccidentalBooleanAssignment
*         SuperfluousSemicolon
*         IndirectAccessToStaticField
*         IndirectAccessToStaticMethod
*         IndirectAccessToStaticType
*         BooleanMethodThrowingException
*         UnnecessaryCast
*         UnnecessaryArgumentCast
*         UnnecessaryInstanceof
*
   FinallyMustCompleteNormally
*         UnusedMethodDeclaredThrownException
*         UnusedConstructorDeclaredThrownException
*         InvalidCatchBlockSequence
*         UnqualifiedFieldAccess
*     IBM Corporation - added the following constants
*         Javadoc
```

```
*       JavadocUnexpectedTag
*       JavadocMissingParamTag
*       JavadocMissingParamName
*       JavadocDuplicateParamName
*       JavadocInvalidParamName
*       JavadocMissingReturnTag
*       JavadocDuplicateReturnTag
*       JavadocMissingThrowsTag
*       JavadocMissingThrowsClassName
*       JavadocInvalidThrowsClass
*       JavadocDuplicateThrowsClassName
*       JavadocInvalidThrowsClassName
*       JavadocMissingSeeReference
*       JavadocInvalidSeeReference
*       JavadocInvalidSeeHref
*       JavadocInvalidSeeArgs
*       JavadocMissing
*       JavadocInvalidTag
*       JavadocMessagePrefix
 *       EmptyControlFlowStatement
*    IBM Corporation - added the following constants
*       IllegalUsageOfQualifiedTypeReference
*       InvalidDigit
*    IBM Corporation - added the following constants
*       ParameterAssignment
*       FallthroughCase
*    IBM Corporation - added the following constants
*                       UnusedLabel
*                       UnnecessaryNLSTag
*                       LocalVariableMayBeNull
*                       EnumConstantsCannotBeSurroundedByParenthesis
*                       JavadocMissingIdentifier
*                       JavadocNonStaticTypeFromStaticInvocation
*                       RawTypeReference
*                       NoAdditionalBoundAfterTypeVariable
*                       UnsafeGenericArrayForVarargs
*                       IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                       InvalidEncoding
*                       CannotReadSource
*                       EnumStaticFieldInInInitializerContext
*                       ExternalProblemNotFixable
*                       ExternalProblemFixable
*    IBM Corporation - added the following constants
*                       AnnotationValueMustBeAnEnumConstant
*                       OverridingMethodWithoutSuperInvocation
*                       MethodMustOverrideOrImplement
```

```
*                       TypeHidingTypeParameterFromType
*                       TypeHidingTypeParameterFromMethod
*                       TypeHidingType
*    IBM Corporation - added the following constants
*        NullLocalVariableReference
*        PotentialNullLocalVariableReference
*        RedundantNullCheckOnNullLocalVariable
*        NullLocalVariableComparisonYieldsFalse
*        RedundantLocalVariableNullAssignment
*        NullLocalVariableInstanceofYieldsFalse
*        RedundantNullCheckOnNonNullLocalVariable
*        NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                       InvalidUsageOfTypeParametersForAnnotationDeclaration
*                       InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*        RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*       MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*       UnusedObjectAllocation
*       PotentiallyUnclosedCloseable
*       PotentiallyUnclosedCloseableAtExit
*       UnclosedCloseable
*       UnclosedCloseableAtExit
*       ExplicitlyClosedAutoCloseable
*       RequiredNonNullButProvidedNull
*       RequiredNonNullButProvidedPotentialNull
*       RequiredNonNullButProvidedUnknown
*       NullAnnotationNameMustBeQualified
*       IllegalReturnNullityRedefinition
*       IllegalRedefinitionToNonNullParameter
*       IllegalDefinitionToNonNullParameter
*       ParameterLackingNonNullAnnotation
*       ParameterLackingNullableAnnotation
*       PotentialNullMessageSendReference
*       RedundantNullCheckOnNonNullMessageSend
*       CannotImplementIncompatibleNullness
*       RedundantNullAnnotation
*       RedundantNullDefaultAnnotation
*       RedundantNullDefaultAnnotationPackage
*       RedundantNullDefaultAnnotationType
*       RedundantNullDefaultAnnotationMethod
*       ContradictoryNullAnnotations
*       IllegalAnnotationForBaseType
*       RedundantNullCheckOnSpecdNonNullLocalVariable
*       SpecdNonNullLocalVariableComparisonYieldsFalse
*       RequiredNonNullButProvidedSpecdNullable
```

* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable

```
*       ImplicitObjectBoundNoNullDefault
*       IllegalParameterNullityRedefinition
*       ContradictoryNullAnnotationsInferredFunctionType
*       IllegalReturnNullityRedefinitionFreeTypeVariable
*       UnlikelyCollectionMethodArgumentType
*       UnlikelyEqualsArgumentType
*     Jesper S Moller  - added the following constants
*       TargetTypeNotAFunctionalInterface
*       OuterLocalMustBeEffectivelyFinal
*       IllegalModifiersForPackage
*       DuplicateAnnotationNotMarkedRepeatable
*       DisallowedTargetForContainerAnnotation
*       RepeatedAnnotationWithContainerAnnotation
*       ContainingAnnotationMustHaveValue
*       ContainingAnnotationHasNonDefaultMembers
*       ContainingAnnotationHasWrongValueType
*        ContainingAnnotationHasShorterRetention
 *       RepeatableAnnotationHasTargets
*       RepeatableAnnotationTargetMismatch
*       RepeatableAnnotationIsDocumented
*       RepeatableAnnotationIsInherited
*       RepeatableAnnotationWithRepeatingContainerAnnotation
*       VarLocalMultipleDeclarators
*       VarLocalCannotBeArray
*       VarLocalReferencesItself
*       VarLocalWithoutInitizalier
*       VarLocalInitializedToNull
*       VarLocalCannotBeArrayInitalizers
*       VarLocalCannotBeLambda
*       VarLocalCannotBeMethodReference
*       VarIsReserved
*       VarIsReservedInFuture
*       VarIsNotAllowedHere
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java
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*
* Contributors:
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*     Stephan Herrmann - Contribution for
*       bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found
 in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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```

```
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 -
 [1.8][null] Bogus warning for type argument annotated with @NonNull
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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*     Stephan Herrmann - Contributions for
*       Bug 186342 - [compiler][null] Using annotations for null checking
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java
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*   Walter Harley   - Patch for ensuring the parent folders are created
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 370930 - NonNull annotation not considered for enhanced for loops
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Jesper S Moller - Contribution for
*   bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java

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*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
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* Erling Ellingsen - patch for bug 125570
* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Sebastian Zarnekow - Contribution for

*	Bug 544921 - [performance] Poor performance with large source files
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
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* Igor Fedorenko - extracted from ElementsImpl
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 385626 - @NonNull fails across
 loop boundaries
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
**********/

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* bug 332637 - Dead Code detection removing code that isn't dead
* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 358903 - Filter practically unimportant resource
 leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
* bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
* Jesper Steen Moller -
 Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*
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* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 404728 - [1.8]NPE on QualifiedSuperReference error
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* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings

```
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
 org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*      bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.java
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*   het@google.com - Bug 441790
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
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* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
 Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********/

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 331649 - [compiler][null] consider
 null annotations for fields
* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
* Jesper S Møller <jesper@selskabet.org> - Contributions for
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 447088 - [null] @Nullable on fully qualified field type is ignored
* Bug 435805 - [1.8][compiler][null]
Java 8 compiler does not recognize declaration style null annotations
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
* Till Brychcy - Contribution for
* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java

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*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*        bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 *******************************************************************************/
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*     Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*   bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*   Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*   Bug 431408 - Java 8 (1.8) generics bug
*   Bug 435962 - [RC2] StackOverFlowError when building
*   Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*   Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*   Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis

*	Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*	Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*	Bug 462790 - [null] NPE in Expression.computeConversion()
*	Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
*	Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*	Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
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* Stephan Herrmann - Contributions for
* bug 292478 - Report potentially null across variable assignment
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field
 references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

*	bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*	bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*	Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*	Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*	Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*	Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*	Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*	Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*	Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*	Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*	Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
*	Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*	Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*	Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*	Bug 426792 - [1.8][inference][impl] generify new type inference engine
*	Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*	Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*	Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
 *	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*	Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*	Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*	Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*	Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*	Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*   Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
**********/

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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*       Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 458396 - NPE in CodeStream.invoke()
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*     Robert Roth <robert.roth.off@gmail.com> - Contributions for
*       Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
*******************************************************************************/
```

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* Contributors:
*    Walter Harley - initial API and implementation
*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
*******************************************************************************/
```

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*
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java
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* Bug 378674 - "The method can be declared as static" is wrong
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* Stephan Herrmann - initial API and implementation
* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
**********/

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 331649 - [compiler][null] consider null annotations for fields

```
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*       bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
*******************************************************************************/
```

Found in path(s):
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*          bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource
 leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*       Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
```

```
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional
expression
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
```

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*       Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                          type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                          type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                          type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*        Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*******************************************************************************/
```

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*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java

*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
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 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
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*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*******************************************************************************/
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*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 186342 - [compiler][null] Using annotations for null checking
```

*	bug 358903 - Filter practically unimportant resource leak warnings
*	bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
into account
*	bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*	Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*	Jesper S Moller <jesper@selskabet.org> - Contributions for
*	Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*	bug 386692 - Missing "unused" warning on "autowired" fields
*	Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*	bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
**********/

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*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
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*     Jesper S Moller   - Contributions for
*         Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Frits Jalvingh    - contributions for bug 533830.
*     Red Hat Inc.      - add module-info Javadoc support
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* bug 332637 - Dead Code detection removing code that isn't dead
* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
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* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
* bug 186342 - [compiler][null] Using annotations for null checking
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
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*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*       Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
*******************************************************************************/
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug
416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
*
 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
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* Contributors:
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* Stephan Herrmann - contributions for
* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment

```
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
 ******************************************************************************/
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*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument
annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
***/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java
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* David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ScannerHelper.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

```
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 367203 - [compiler][null] detect assigning null to nonnull argument
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
```

*	bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*	bug 365531 - [compiler][null] investigate alternative strategy for internally
encoding nullness defaults
*	bug 388281 - [compiler][null] inheritance of null annotations as an option
*	Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*	Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*	Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*	Bug 443347 - [1.8][null]
@NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*	Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*	Bug 471611 - Error on hover on call to generic method with null annotation
*	Jesper Steen Moller - Contributions for
*	Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java
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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java
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*       bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/IQualifiedTypeResolutionListener.java
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*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*       Stephan Herrmann - Contribution for
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java
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*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
**********/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*     Till Brychcy - Contribution for
*       Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:

    Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
    to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
    and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
    the key, in the latter with List<String> as the key.

    Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
    alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
    the same TypeBinding.id => correctness is not an issue, but memory wastage is)
  */
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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* Contributors:
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java

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*     Stephan Herrmann - Contribution for
*       Bug 458396 - NPE in CodeStream.invoke()
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*       bug 331649 - [compiler][null] consider null annotations for fields
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* Contributors:
*    wharley@bea.com - initial API and implementation
*    IBM Corporation - Fix for bug 341494
*    IBM Corporation - Fix for bug 328575
*    IBM Corporation - Java 8 support
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*     Stephan Herrmann - Contributions for
*       bug 335093 - [compiler][null] minimal hook for future null annotation support
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*       bug 370930 - NonNull annotation not considered for enhanced for loops
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
```

```
 work)
*                    Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java
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*     Stephan Herrmann - Contribution for
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
```

```
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425783 - An
 internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileConstants.java
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*   Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
***/

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* Stephan Herrmann - Contribution for
* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
  bug 407191 - [1.8] Binary access support for type annotations
**********/

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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 366063 - Compiler should not add synthetic @NonNull annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper Steen Moller - Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

*	bug 413958 - Function override returning inherited Generic Type
*	Bug 400874 - [1.8][compiler] Inference infrastructure
should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*	Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*	Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*	Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*	Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*	Bug 446442 - [1.8] merge null annotations from super methods
*	Bug 457079 - Regression: type
inference
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*	bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*	bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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* Stephan Herrmann - contributions for
* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null]
distinguish warnings based on flow analysis vs. null annotations
* bug 385626 - @NonNull fails across loop boundaries
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 376263 - Bogus "Potential null pointer access" warning
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* bug 406384 - Internal error with I20130413
* Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 421035 - [resource]
False alarm of resource leak warning when casting a closeable in its assignment
* Jesper S Moller - contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null]
Compiler misidentifies a case of "variable can only be null"
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 458396 - NPE in CodeStream.invoke()
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
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1.298 javassist 3.29.2-GA

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* /javassist-3-29-2-ga-sources-jar/javassist/tools/Callback.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtConstructor.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/InnerClassesAttribute.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/compiler/Lex.java
* /javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewClass.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeIterator.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/FieldAccess.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Loader.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/IntQueue.java
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* /gson-2-10-sources-jar/com/google/gson/stream/JsonScope.java
* /gson-2-10-sources-jar/com/google/gson/stream/JsonToken.java
* /gson-2-10-sources-jar/com/google/gson/stream/MalformedJsonException.java
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* /gson-2-10-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /gson-2-10-sources-jar/com/google/gson/TypeAdapterFactory.java
* /gson-2-10-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-10-sources-jar/com/google/gson/TypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapters.java
*
 /gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
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* /gson-2-10-sources-jar/com/google/gson/internal/LazilyParsedNumber.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java
* /gson-2-10-sources-jar/com/google/gson/internal/ConstructorConstructor.java
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* /gson-2-10-sources-jar/com/google/gson/annotations/JsonAdapter.java
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* /gson-2-10-sources-jar/com/google/gson/internal/Streams.java
* /gson-2-10-sources-jar/com/google/gson/JsonSyntaxException.java

1.304 d-bus 1.12.20-2ubuntu4.1

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1.305 fiorix-go-diameter 4.0.4

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1.306 x-time-rate 0.4.0

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1.307 distlib 0.3.6

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
 of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes

the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2		2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.308 pcre2 10.39-3ubuntu0.1

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Manifest-Version: 1.0
Bnd-LastModified: 1655327905690
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Common code used by various modules of the Simplecli

ent.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Common
Bundle-SymbolicName: io.prometheus.simpleclient_common
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exporter.common;uses:="io.prometheu
s.client";version="0.16.0"
Import-Package: io.prometheus.client;version="[0.16,1)",io.prometheus.cl
ient.exemplars;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
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1.311 simpleclient_tracer_otel 0.16.0

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1.312 simpleclient_tracer_otel_agent 0.16.0

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INF/maven/io.prometheus/simpleclient_tracer_otel_agent/pom.xml

1.313 simpleclient 0.16.0

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*
* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/DoubleAdder.java?revision=1.12
*/

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*
* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10
*/

Found in path(s):
* /simpleclient-0-16-0-sources-3-jar/io/prometheus/client/Striped64.java

1.314 diskv 2.0.1+incompatible

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1.315 jbig-kit 2.1-3.1ubuntu0.22.04.1

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1.316 prometheus-client-model 0.2.0

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1.317 scala-java8-compat_2.13 1.0.2

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Manifest-Version: 1.0
Automatic-Module-Name: scala.compat.java8
Bnd-LastModified: 1635385851336
Bundle-Description: scala-java8-compat
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0;descriptio
n=Apache-2.0

```
Bundle-ManifestVersion: 2
Bundle-Name: scala-java8-compat
Bundle-SymbolicName: org.scala-lang.modules.scala-java8-compat
Bundle-Vendor: org.scala-lang.modules
Bundle-Version: 1.0.2
Created-By: 1.8.0_312 (Temurin)
Export-Package: scala.compat.java8;version="1.0.2";uses:="scala,scala.
collection,scala.collection.convert,scala.compat.java8.converterImpl,
scala.concurrent,scala.concurrent.duration,scala.jdk,scala.reflect,sc
ala.runtime,scala.runtime.java8",scala.compat.java8.FunctionConverter
s;version="1.0.2";uses:="scala,scala.compat.java8,scala.reflect,scala
.runtime",scala.compat.java8.collectionImpl;version="1.0.2";uses:="sc
ala.collection,scala.jdk,scala.reflect",scala.compat.java8.converterI
 mpl;version="1.0.2";uses:="scala,scala.collection,scala.collection.co
nvert,scala.jdk,scala.reflect,scala.runtime",scala.compat.java8.funct
ionConverterImpls;version="1.0.2";uses:="scala,scala.reflect,scala.ru
ntime",scala.compat.java8.wrappers;version="1.0.2"
Implementation-Title: scala-java8-compat
Implementation-URL: http://www.scala-lang.org/
Implementation-Vendor: org.scala-lang.modules
Implementation-Vendor-Id: org.scala-lang.modules
Implementation-Version: 1.0.2
Import-Package: scala;version="[2.13,3)",scala.collection;version="[2.
13,3)",scala.collection.convert;version="[2.13,3)",scala.collection.m
utable;version="[2.13,3)",scala.compat.java8.collectionImpl;version="
[1.0,2)",scala.compat.java8.converterImpl;version="[1.0,2)",scala.com
pat.java8.functionConverterImpls;version="[1.0,2)",scala.compat.java8
.wrappers;version="[1.0,2)",scala.concurrent;version="[2.13,3)",scala
.concurrent.duration;version="[2.13,3)",scala.concurrent.impl;version
="[2.13,3)",scala.jdk;version="[2.13,3)",scala.jdk.javaapi;version="[
 2.13,3)",scala.reflect;version="[2.13,3)",scala.runtime;version="[2.1
3,3)",scala.runtime.java8;version="[2.13,3)",scala.util;version="[2.1
3,3)"
Private-Package: scala.concurrent.java8
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Specification-Title: scala-java8-compat
Specification-Vendor: org.scala-lang.modules
Specification-Version: 1.0.2
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /scala-java8-compat-2-13-1-0-2-2-jar/META-INF/MANIFEST.MF
```

1.318 go.uber.org/atomi 1.9.0

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1.319 httpcomponents-core 4.4.16

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1.320 x-time-rate 0.3.0

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1.322 go-isatty 0.0.17

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1.323 wheel 0.37.1-2ubuntu0.22.04.1

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1.324 bcel 6.7.0

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1.325 jackson 2.14.2

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1.326 jackson-databind 2.14.2

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1.327 opentracing-go 1.1.0

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1.328 error_prone_annotations 2.18.0

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1.329 commons-fileupload 1.5

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1.330 cyrus-sasl 2.1.27+dfsg2-3ubuntu1.2

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* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: www.
* source-code.biz/base64coder/java
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Represent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
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1.332 pcre 2:8.39-13ubuntu0.22.04.1

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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This package was put together by me, Mark Baker <mbaker@iee.org> from the
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1.333 attr 1:2.5.1-1build1

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copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

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

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

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This gmp package was built for Debian by

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1.338 diffutils 1:3.8-0ubuntu2

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1.345 clockwork 0.4.0

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1.346 go-ntlmssp 0.0.0-20221128193559-754e69321358

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1.347 sudo 1.9.9-1ubuntu2.4

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code or patches to this implementation of sudo since I began
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav

Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc

Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
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Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.

Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
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Nikitser, Peter A.
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Paquet, Eric
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Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt

Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
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Saucier, Jean-Francois
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Schuring, Arno
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Valery, Reznic
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Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van

Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
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Hantrais, Frdric
Hein, Jochen
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Karvonen, Jorma
Kazik, Duan
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Sarer, zgr
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield
logo: Badger, Trent
Sandwich logo (inspired by xkcd): Stillman, Mark

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1.348 jackson-dataformat-yaml 2.14.2

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1.350 simpleclient-httpserver 0.16.0

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1.351 simpleclient-hotspot 0.16.0

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Manifest-Version: 1.0
Bnd-LastModified: 1655327979490
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: Collectors of data from Java Hotspot.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Hotspot
Bundle-SymbolicName: io.prometheus.simpleclient_hotspot
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client
";version="0.16.0"
Import-Package: com.sun.management,io.prometheus.client;version="[0.16,1
)",javax.management,javax.management.openmbean
Tool: Bnd-2.1.0.20130426-122213

Found in path(s):
* /simpleclient-hotspot-0-16-0-2-jar/META-INF/MANIFEST.MF

1.352 slf4j-reload4j 1.7.36

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*
*/
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Found in path(s):
* /slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/StaticLoggerBinder.java
* /slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/Reload4jMDCAdapter.java
* /slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/Reload4jLoggerFactory.java
* /slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/StaticMDCBinder.java
* /slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/StaticMarkerBinder.java
* /slf4j-reload4j-1-7-36-sources-3-jar/org/slf4j/impl/Reload4jLoggerAdapter.java

1.353 jackson-databind 2.15.0

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1.354 joda-time 2.12.5

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1.358 python-tz 2022.1-1ubuntu0.22.04.1

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 We set a mandatory attribute for these packages, because we don't\
                    want them to be visible to just anyone. An importer must specify\
                    the mandatory attribute for it to be able to import. See \
                    section #3.6.5 of OSGi R4 spec.\
                    Why is this required?\
                    See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
                    By doing this, we allow user have any version of apache-commons lib\
                    in their application class loader hierarchy. They don't even have to\
                    set delegation=false in sun-web.xml! This is the true advantage of\
                    using OSGi.
 Sahoo.\
                \
-->\
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1.363 python-requests 2.31.0

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1.369 scala-collection-compat_2.13 2.10.0

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.2	2.1.1	2002	PSF	yes
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1.371 go-toml 2.0.8

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1.373 jackson 2.15.2

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.374 jackson-databind 2.15.2

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1.379 prometheus-client 1.16.0

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1.380 jackson-dataformat-yaml 2.15.0

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.383 guava 32.1.1-jre

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* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/IndexType.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/Experimental.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/TraceOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/Status.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/CompactionOptionsFIFO.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ReadOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RocksCallbackObject.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RocksMemEnv.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/EncodingType.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ThreadStatus.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractCompactionFilter.java
*
 /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/OperationType.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ClockCache.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/MemTableConfig.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ThreadType.java

* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/WalFilter.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RocksObject.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/OptionString.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/DBOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/DbPath.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/Options.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/util/ReverseBytewiseComparator.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ComparatorOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractSlice.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/FlushReason.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/OperationStage.java
*
/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/DirectSlice.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/MemTableInfo.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RocksIteratorInterface.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/SstFileReaderIterator.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/StateType.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/TraceWriter.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/util/BytewiseComparator.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/CompactionJobStats.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractWriteBatch.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractEventListener.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/SstPartitionerFactory.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/TimedEnv.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/BloomFilter.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RateLimiterMode.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/WriteBatchWithIndex.java
*
/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/SstFileWriter.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/WalFileType.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/Snapshot.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RocksEnv.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/Statistics.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/StatisticsCollector.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/IngestExternalFileOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/SstFileMetaData.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractWalFilter.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/TransactionDBOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/WriteBatchInterface.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RocksDBException.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/OptimisticTransactionDB.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/CompressionOptions.java
*
/rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/BackgroundErrorReason.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/HistogramType.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/FlushOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ColumnFamilyOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/Filter.java

* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/IndexShorteningMode.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/OptimisticTransactionOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/PlainTableConfig.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/TxnDBWritePolicy.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/TransactionDB.java
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* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/PrepopulateBlobCache.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ConfigOptions.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ConcurrentTaskLimiterImpl.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ConcurrentTaskLimiter.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/SanityLevel.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/ByteBufferGetStatus.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/util/ByteUtil.java
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* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractNativeReference.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/RocksMutableObject.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/AbstractImmutableNativeReference.java
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* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/CassandraCompactionFilter.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/CassandraValueMergeOperator.java
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* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/MergeOperator.java
* /rocksdbjni-7-9-2-sources-1-jar/org/rocksdb/StringAppendOperator.java

1.388 bouncy-castle 1.75

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1.391 python-stdlib-extensions 3.10.8-1~22.04

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives
(CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.392 go.uber.org/atomi 1.7.0

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1.393 go-sysconf 0.3.12

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* /okio-3-5-0-sources-1-jar/commonMain/okio/Okio.kt

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* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Node.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/Event.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/Composer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/internal/Logger.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/Property.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Production.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Represent.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/DumperOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/Token.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
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* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.
* source-code.biz/base64coder/java</a><br>
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>
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*/
```

Found in path(s):
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

1.397 apr-util 1.6.1-5ubuntu4.22.04.2

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1.398 jackson-datatype-jsr310 2.13.5

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1.400 jackson-jaxrs-base 2.13.5

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1.402 j2objc-annotations 2.8

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* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedWith.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/WeakOuter.java
*
 /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ObjectiveCName.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Property.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/LoopTranslation.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/OnDealloc.java
* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedLocalRef.java

1.403 golang-genproto 0.0.0-20230822172742-b8732ec3820d

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1.404 libwebp 1.2.2-2ubuntu0.22.04.2

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1.409 zlib 1:1.2.11.dfsg-2ubuntu9.2

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  Version 1.7 12 August 2012 Mark Adler */

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  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

  Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

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  Modifications for Zip64 support on both zip and unzip
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  For more info read MiniZip_info.txt

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crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
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This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
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version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

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Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
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*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
No license file was found, but licenses were detected in source scan.

/* gzlog.h
Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes
well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is

http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/ .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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

 The data format used by the zlib library is described by RFCs (Request for

Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

```
/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

```
MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction
---------------------
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( http://www.winimage.com/zLibDll/minizip.html )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.


Background
---------------------
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal ( http://www.gdal.org/ )

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.


Changed from MiniZip 1.0 to MiniZip 1.1
---------------------------------------
* Added ZIP64 support for unzip ( by Even Rouault )
* Added ZIP64 support for zip ( by Mathias Svensson
```

)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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Changes

See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

   Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

   The zlib sources can be compiled without change to produce a DLL. See the
   file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the
   precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference
("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see

http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines
that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how

zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value.

Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.410 afero 1.10.0

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1.411 urllib3 1.26.17

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1.412 jackson-datatype-jdk8 2.13.5

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1.414 jmx-prometheus-javaagent 0.18.0

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* /jmx-prometheus-javaagent-0-18-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel_agent/pom.xml
* /jmx-prometheus-javaagent-0-18-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient_tracer_common/pom.xml
* /jmx-prometheus-javaagent-0-18-0-sources-2-jar/META-INF/maven/io.prometheus/simpleclient/pom.xml

1.415 swagger-annotations 2.2.8

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
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- javaee_6.xsd
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- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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- web-app_3_0.xsd
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1.423 libcap 2.44

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Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
6_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/nati
ve/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xer
ial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x
86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macos
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ib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch6
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o;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/
libsnappyjava.so;osname=sunos;processor=sparc
Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
 org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna
ppy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch
64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.nativ
e.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.na
tive.Linux.armv7,org.xerial.snappy.native.Linux.ppc,org.xerial.snappy
.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial
.snappy.native.Linux.riscv64,org.xerial.snappy.native.Linux.s390x,org
.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64
,org.xerial.snappy.native.Mac.aarch64,org.xerial.snappy.native.Mac.x8
6,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xe
rial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org
.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.a
arch64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.
Windows.x86_64
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org

Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /snappy-java-1-1-10-5-jar/META-INF/MANIFEST.MF

1.426 pcre 8.44

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THE BASIC LIBRARY FUNCTIONS

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1.427 urllib3 1.26.18

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1.428 python-pip 21.3.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
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2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.429 iputils 0211215

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1.430 python-certifi 2023.7.22

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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1.431 python-certifi 2023.07.22

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v
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1.432 okhttp 4.12.0

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1.433 vcs 1.13.3

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1.434 libxrender 1:0.9.10-1build4

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1.435 klauspost-compress 1.16.7

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1.436 google-go-cmp 0.6.0

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Python was created in the early 1990s by Guido van Rossum at Stichting

Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.439 viper 1.17.0

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1.440 jetty-continuation 9.4.53.v20231009

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

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

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* javax.servlet:javax.servlet-api

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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

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

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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Oracle OpenJDK

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* java.sun.security.ssl

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org.apache.tomcat:tomcat-juli

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org.eclipse.jetty.toolchain:jetty-schemas

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Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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1.449 prometheus-client 1.17.0

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1.450 go-errors-errors 1.5.1

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1.461 classmate 1.6.0

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library `Frob' (a library for tweaking knobs) written by James
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
The libffi source distribution contains certain code that is not part
of libffi, and is only used as tooling to assist with the building and
testing of libffi. This includes the msvcc.sh script used to wrap the
Microsoft compiler with GNU compatible command-line options,
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
```

```
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
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1.470 snappy-java 1.1.10.5

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```
Manifest-Version: 1.0
Bnd-LastModified: 1695799258578
Bundle-ActivationPolicy: lazy
Bundle-Activator: org.xerial.snappy.SnappyBundleActivator
Bundle-Description: snappy-java: A fast compression/decompression libr
ary
Bundle-DocURL: http://www.xerial.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: snappy-java: A fast compression/decompression library
Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.
dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x8
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Bundle-SymbolicName: org.xerial.snappy.snappy-java
Bundle-Vendor: xerial.org
Bundle-Version: 1.1.10.5
Created-By: 11.0.20 (Azul Systems, Inc.)
Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial
.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.sn
appy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
```

Implementation-URL: https://github.com/xerial/snappy-java
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.5
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
 org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.na
tive.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.sna
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.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial
.snappy.native.Linux.riscv64,org.xerial.snappy.native.Linux.s390x,org
.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64
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Windows.x86_64
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.5
Tool: Bnd-5.1.2.202007211702

Found in path(s):
* /snappy-java-1-1-10-5-1-jar/META-INF/MANIFEST.MF

1.471 prometheus-client-model 0.4.1-0.20230718164431-9a2bf3000d16

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1.472 etcd-client 3.5.10

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1.473 etcd-client-pkg 3.5.10

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1.476 metrics 4.2.23

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1.479 guava 33.0.0-jre

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1.481 jackson 2.16.1

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* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/util/FileUtil.java
* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java
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* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/AppenderBase.java
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* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/rolling/helper/RenameUtil.java
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1.486 coreos-semver 0.3.1

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

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

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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed
under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

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

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

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Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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Linking with OpenSSL

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1.488 govalidator 0.0.0-20230301143203-a9d515a09cc2

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1.489 logr 1.3.0

1.489.1 Available under license :

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```
/*!
* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
* Copyright 2015 Aidan Feldman
* Licensed under MIT (https://github.com/afeld/bootstrap-toc/blob/gh-pages/LICENSE.md) */
```

Found in path(s):
* /logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.js
* /logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.css
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```
Package: logr
Title: Creates Log Files
Version: 1.3.0
Authors@R: c(
  person(given = "David",
         family = "Bosak",
         role = c("aut", "cre"),
         email = "dbosak01@gmail.com"),
  person("Rikard", "Isaksson", role = "ctb"))
Description: Contains functions to help create log files.  The
  package aims to overcome the difficulty of the base R sink() command.  The
  log_print() function will print to both the console and the file log,
  without interfering in other write operations.
License: CC0
Encoding: UTF-8
URL: https://logr.r-sassy.org
BugReports: https://github.com/dbosak01/logr/issues
Depends: R (>= 3.4.0)
Suggests:
  knitr,
```

```
  rmarkdown,
  testthat,
  tidylog,
  dplyr,
  covr
Imports: withr,
     utils,
     this.path
VignetteBuilder: knitr
Roxygen: list(markdown = TRUE)
RoxygenNote: 7.1.2
```

Found in path(s):
* /logr-1-3-0-4-zip/logr-1.3.0/DESCRIPTION
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```
/*
 Source: https://github.com/algolia/docsearch/
 License: MIT
*/
```

Found in path(s):
* /logr-1-3-0-4-zip/logr-1.3.0/docs/docsearch.css

1.490 zlib 1.2.11

1.490.1 Available under license :

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1.491 zlib 1.2.13

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

1.492 leveldb 0.12.0

1.492.1 Available under license :

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Found in path(s):
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/logging.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/arena.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/hash.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/iterator_wrapper.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/testutil.h

* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/comparator.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/skiplist.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/arena.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/write_batch.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/filename_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/db.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/version_edit.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/format.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/db_impl.h
*
 /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/testharness.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/repair.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/port/port_posix.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/log_format.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/version_set.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/log_reader.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/memtable.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/table.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/block_builder.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/table.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/port/port.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/slice.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/corruption_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/port/port_example.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/status.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/db_iter.h
*
 /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/block_builder.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/arena_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/comparator.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/table_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/memtable.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/table_builder.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/iterator.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/dbformat.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/db_bench.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/write_batch_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/cache.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/port/atomic_pointer.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/crc32c_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/write_batch_internal.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/testharness.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/mutexlock.h
*
 /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/posix_logger.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/testutil.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/snapshot.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/write_batch.h

* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/iterator.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/merger.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/log_reader.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/port/port_posix.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/log_writer.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/status.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/env_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/builder.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/log_writer.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/version_set_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/version_edit_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/db_iter.cc
*
/leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/coding.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/block.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/version_edit.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/options.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/include/leveldb/env.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/c.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/builder.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/cache.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/coding.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/table_cache.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/crc32c.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/options.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/random.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/version_set.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/crc32c.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/two_level_iterator.h
*
/leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/cache_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/coding_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/histogram.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/table_builder.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/filename.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/db_impl.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/dbformat_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/block.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/hash.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/env_posix.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/skiplist_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/two_level_iterator.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/table_cache.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/log_test.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/env.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/histogram.cc
*

/leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/filename.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/dbformat.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/merger.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/logging.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/table/format.h
* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/db/db_test.cc
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* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-c.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy_unittest.cc
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* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-stubs-internal.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-sinksource.cc
* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-test.cc
*
 /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-test.h
* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-stubs-public.h
* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-stubs-internal.h
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*
* Plain C interface (a wrapper around the C++ implementation).
*/

Found in path(s):
* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-c.h

1.493 msgp 1.1.6

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1.494 lz4-java 1.8.0

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1.495 metrics-httpclient 4.2.23

1.495.1 Available under license :

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```
Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.httpclient
Build-Jdk-Spec: 17
Bundle-Description: An Apache HttpClient wrapper providing Metrics ins
trumentation of connection pools, request        durations and rates,
 and other useful information.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Apache HttpClient
Bundle-SymbolicName: io.dropwizard.metrics.httpclient
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.httpclient;uses:="com.codahale.me
trics,org.apache.http,org.apache.http.config,org.apache.http.conn,org
.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http
.impl.client,org.apache.http.impl.conn,org.apache.http.protocol";vers
ion="4.2.23"
Implementation-Title: Metrics Integration for Apache HttpClient
Implementation-Version: 4.2.23
Import-Package:
 com.codahale.metrics;version="[4.2,5)",org.apache.http
,org.apache.http.client,org.apache.http.client.methods,org.apache.htt
p.client.utils,org.apache.http.config,org.apache.http.conn,org.apache
.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.s
sl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.h
ttp.pool,org.apache.http.protocol
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
```

Found in path(s):
* /metrics-httpclient-4-2-23-jar/META-INF/MANIFEST.MF

1.496 joda-time 2.12.7

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1.497 metrics-jmx 4.2.23

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Automatic-Module-Name: com.codahale.metrics.jmx
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to report metrics
via JMX.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration with JMX
Bundle-SymbolicName: io.dropwizard.metrics.jmx
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,j
avax.management";version="4.2.23"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",javax.management
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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1.498 docker 25.0.1+incompatible

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

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1.500 unzip 6.0-26ubuntu3.2

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- -

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The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
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5.42, the complete
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```
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  *
  * A collection of File Manager and related routines
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```
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 *
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 *
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
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The decompression core code for the deflate method (inflate.[ch],
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* /jline-3-25-1-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-3-25-1-sources-jar/org/jline/utils/DiffHelper.java
* /jline-3-25-1-sources-jar/org/jline/terminal/Attributes.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-3-25-1-sources-jar/org/jline/terminal/Cursor.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
*
 /jline-3-25-1-sources-jar/org/jline/keymap/KeyMap.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-3-25-1-sources-jar/org/jline/utils/InputStreamReader.java
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* /jline-3-25-1-sources-jar/org/jline/utils/ShutdownHooks.java
* /jline-3-25-1-sources-jar/org/jline/terminal/MouseEvent.java
* /jline-3-25-1-sources-jar/org/jline/reader/Reference.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/spi/Pty.java
* /jline-3-25-1-sources-jar/org/jline/reader/UserInterruptException.java
* /jline-3-25-1-sources-jar/org/jline/reader/Macro.java
* /jline-3-25-1-sources-jar/org/jline/utils/WCWidth.java
* /jline-3-25-1-sources-jar/org/jline/reader/Binding.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-3-25-1-sources-jar/org/jline/utils/Levenshtein.java
*
 /jline-3-25-1-sources-jar/org/jline/reader/Widget.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/UndoTree.java
* /jline-3-25-1-sources-jar/org/jline/utils/AttributedString.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/exec/ExecPty.java
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* /jline-3-25-1-sources-jar/org/jline/reader/Candidate.java
* /jline-3-25-1-sources-jar/org/jline/reader/Editor.java
* /jline-3-25-1-sources-jar/org/jline/builtins/ConfigurationPath.java
* /jline-3-25-1-sources-jar/org/jline/utils/InfoCmp.java
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* /jline-3-25-1-sources-jar/org/jline/reader/PrintAboveWriter.java
* /jline-3-25-1-sources-jar/org/jline/console/SystemRegistry.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/history/DefaultHistory.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-3-25-1-sources-jar/org/jline/utils/AttributedCharSequence.java
* /jline-3-25-1-sources-jar/org/jline/reader/Highlighter.java
* /jline-3-25-1-sources-jar/org/jline/builtins/ConsoleOptionGetter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/TerminalBuilder.java
*
 /jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
* /jline-3-25-1-sources-jar/org/jline/console/ArgDesc.java
* /jline-3-25-1-sources-jar/org/jline/builtins/Completers.java
* /jline-3-25-1-sources-jar/org/jline/builtins/TTop.java
* /jline-3-25-1-sources-jar/org/jline/builtins/Nano.java
* /jline-3-25-1-sources-jar/org/jline/reader/Parser.java
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* /jline-3-25-1-sources-jar/org/jline/reader/impl/LineReaderImpl.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-3-25-1-sources-jar/org/jline/reader/LineReader.java
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* /jline-3-25-1-sources-jar/org/jline/builtins/telnet/ConnectionData.java
* /jline-3-25-1-sources-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-3-25-1-sources-jar/org/jline/builtins/telnet/ConnectionManager.java
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* /jline-3-25-1-sources-jar/org/jline/nativ/jlinenative.properties
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Found in path(s):
* /jline-3-25-1-sources-jar/org/jline/style/StyleFactory.java
* /jline-3-25-1-sources-jar/org/jline/terminal/Size.java
* /jline-3-25-1-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-3-25-1-sources-jar/org/jline/reader/CompletingParsedLine.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/KillRing.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-3-25-1-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-3-25-1-sources-jar/org/jline/utils/StyleResolver.java
* /jline-3-25-1-sources-jar/org/jline/utils/Colors.java
*
 /jline-3-25-1-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /jline-3-25-1-sources-jar/org/jline/keymap/BindingReader.java

* /jline-3-25-1-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-3-25-1-sources-jar/org/jline/style/Styler.java
* /jline-3-25-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /jline-3-25-1-sources-jar/org/jline/style/StyleSource.java
* /jline-3-25-1-sources-jar/org/jline/utils/NonBlocking.java
* /jline-3-25-1-sources-jar/org/jline/utils/Timeout.java
* /jline-3-25-1-sources-jar/org/jline/terminal/Terminal.java
* /jline-3-25-1-sources-jar/org/jline/reader/Completer.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-3-25-1-sources-jar/org/jline/builtins/NfaMatcher.java
* /jline-3-25-1-sources-jar/org/jline/builtins/InputRC.java
* /jline-3-25-1-sources-jar/org/jline/utils/Curses.java
* /jline-3-25-1-sources-jar/org/jline/reader/ParsedLine.java
* /jline-3-25-1-sources-jar/org/jline/style/StyleExpression.java
*
 /jline-3-25-1-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /jline-3-25-1-sources-jar/org/jline/reader/MaskingCallback.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /jline-3-25-1-sources-jar/org/jline/reader/History.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java
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Found in path(s):
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/WindowsAnsiWriter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/FfmTerminalProvider.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/NativeWinSysTerminal.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/FfmNativePty.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/NativeWinConsoleWriter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/CLibrary.java
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Found in path(s):
* /jline-3-25-1-sources-jar/org/jline/utils/AnsiWriter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/win/WindowsAnsiWriter.java
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Found in path(s):
* /jline-3-25-1-sources-jar/org/jline/jansi/AnsiMode.java
* /jline-3-25-1-sources-jar/org/jline/jansi/AnsiMain.java
* /jline-3-25-1-sources-jar/org/jline/jansi/io/AnsiProcessor.java
* /jline-3-25-1-sources-jar/org/jline/jansi/io/AnsiOutputStream.java
* /jline-3-25-1-sources-jar/org/jline/jansi/AnsiPrintStream.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/ffm/Kernel32.java
* /jline-3-25-1-sources-jar/org/jline/jansi/WindowsSupport.java
* /jline-3-25-1-sources-jar/org/jline/jansi/io/FastBufferedOutputStream.java
* /jline-3-25-1-sources-jar/org/jline/jansi/io/WindowsAnsiProcessor.java
* /jline-3-25-1-sources-jar/org/jline/jansi/AnsiRenderer.java
*
 /jline-3-25-1-sources-jar/org/jline/jansi/AnsiConsole.java
* /jline-3-25-1-sources-jar/org/jline/utils/FastBufferedOutputStream.java
* /jline-3-25-1-sources-jar/org/jline/nativ/CLibrary.java
* /jline-3-25-1-sources-jar/org/jline/jansi/AnsiColors.java
* /jline-3-25-1-sources-jar/org/jline/jansi/io/Colors.java
* /jline-3-25-1-sources-jar/org/jline/jansi/io/ColorsAnsiProcessor.java
* /jline-3-25-1-sources-jar/org/jline/jansi/Ansi.java
* /jline-3-25-1-sources-jar/org/jline/jansi/AnsiType.java
* /jline-3-25-1-sources-jar/org/jline/nativ/Kernel32.java
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* /jline-3-25-1-sources-jar/org/jline/reader/impl/completer/package-info.java
* /jline-3-25-1-sources-jar/org/jline/utils/package-info.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/history/package-info.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/package-info.java
* /jline-3-25-1-sources-jar/org/jline/reader/package-info.java
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black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua

white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
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turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
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purple3
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slateblue3a

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steelblue1
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seagreen3
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mediumturquoise
steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
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lightskyblue3a

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chartreuse1
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lightgreena
palegreen1
aquamarine1a
darkslategray1
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magenta3
darkvioleta
purpleb
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
darkgoldenrod
lightsalmon3
rosybrown
grey63
mediumpurple2a
mediumpurple1
gold3
darkkhaki
navajowhite3
grey69
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lightsteelblue
yellow3
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darkseagreen3a
darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2
palegreen1a
darkseagreen2a
darkseagreen1

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deeppink3
deeppink3a
magenta3a
magenta3b
magenta2
darkorange3a
indianreda
hotpink3a
hotpink2
orchid
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orange3
lightsalmon3a
lightpink3
pink3
plum3
violet
gold3a
lightgoldenrod3
tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
lightyellow3
grey84
lightsteelblue1
yellow2
darkolivegreen1
darkolivegreen1a
darkseagreen1a
honeydew2
lightcyan1
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deeppink2
deeppink1
deeppink1a
magenta2a
magenta1
orangered1
indianred1
indianred1a
hotpink
hotpinka

mediumorchid1a
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salmon1
lightcoral
palevioletred1
orchid2
orchid1
orange1
sandybrown
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pink1
plum1
gold1
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lightgoldenrod2b
navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
grey3
grey7
grey11
grey15
grey19
grey23
grey27
grey30
grey35
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grey42
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grey50
grey54
grey58
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grey89

grey93

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 in path(s):
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* /jline-3-25-1-sources-jar/org/jline/console/impl/Builtins.java
* /jline-3-25-1-sources-jar/org/jline/console/Printer.java
* /jline-3-25-1-sources-jar/org/jline/console/impl/SystemHighlighter.java
* /jline-3-25-1-sources-jar/org/jline/builtins/Source.java
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#
class = org.jline.terminal.impl.jna.JnaTerminalProvider

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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km

has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf

micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as

enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff

from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
key_ctab, kctab, kt
key_dc, kdch1, kD
key_dl, kdl1, kL
key_down, kcud1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos,
ked, kS
key_exit, kext, @9
key_f0, kf0, k0
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key_f11, kf11, F1
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key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6

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key_f19, kf19, F9
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key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
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key_f40, kf40, FU
key_f41, kf41, FV
key_f42, kf42, FW
key_f43, kf43, FX
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key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
key_f48, kf48, Fc
key_f49, kf49, Fd
key_f5, kf5, k5
key_f50, kf50, Fe
key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
key_f56, kf56, Fk
key_f57, kf57, Fl
key_f58, kf58,
Fm
key_f59, kf59, Fn

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key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0
key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kil1, kA
key_left, kcub1, kl
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6
key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2

key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc

orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
 mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML

set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4

exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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class = org.jline.terminal.impl.jansi.JansiTerminalProvider

Found in path(s):
* /jline-3-25-1-sources-jar/META-INF/services/org/jline/terminal/provider/jansi
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* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /jline-3-25-1-sources-jar/org/jline/utils/Log.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java
* /jline-3-25-1-sources-jar/org/jline/console/impl/JlineCommandRegistry.java
* /jline-3-25-1-sources-jar/org/jline/reader/LineReaderBuilder.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-3-25-1-sources-jar/org/jline/reader/EndOfFileException.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
*
 /jline-3-25-1-sources-jar/org/jline/utils/ColorPalette.java
* /jline-3-25-1-sources-jar/org/jline/console/CmdLine.java
* /jline-3-25-1-sources-jar/org/jline/widget/AutopairWidgets.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/JniTerminalProvider.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinSysTerminal.java
* /jline-3-25-1-sources-jar/org/jline/console/CommandInput.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/JniNativePty.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /jline-3-25-1-sources-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /jline-3-25-1-sources-jar/org/jline/utils/Signals.java
*
 /jline-3-25-1-sources-jar/org/jline/widget/AutosuggestionWidgets.java
* /jline-3-25-1-sources-jar/org/jline/reader/CompletionMatcher.java
* /jline-3-25-1-sources-jar/org/jline/console/CmdDesc.java
* /jline-3-25-1-sources-jar/org/jline/console/CommandRegistry.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /jline-3-25-1-sources-jar/org/jline/console/CommandMethods.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java

* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-3-25-1-sources-jar/org/jline/console/ScriptEngine.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/DefaultParser.java
* /jline-3-25-1-sources-jar/org/jline/utils/Display.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
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* /jline-3-25-1-sources-jar/org/jline/nativ/JLineLibrary.java
* /jline-3-25-1-sources-jar/org/jline/terminal/spi/TerminalExt.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/WindowsSupport.java
* /jline-3-25-1-sources-jar/org/jline/reader/SyntaxError.java
* /jline-3-25-1-sources-jar/org/jline/terminal/spi/SystemStream.java
* /jline-3-25-1-sources-jar/org/jline/reader/EOFError.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/DumbTerminalProvider.java
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```

Found in path(s):
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-ffm/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml
* /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jni/pom.xml

*
 /jline-3-25-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
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Found in path(s):
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* /jline-3-25-1-sources-jar/org/jline/style/MemoryStyleSource.java
* /jline-3-25-1-sources-jar/org/jline/style/StyleBundle.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-3-25-1-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-3-25-1-sources-jar/org/jline/builtins/telnet/Telnet.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/osx/OsXNativePty.java
* /jline-3-25-1-sources-jar/org/jline/style/StyledWriter.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /jline-3-25-1-sources-jar/org/jline/style/InterpolationHelper.java
*
 /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-3-25-1-sources-jar/org/jline/style/StyleColor.java
* /jline-3-25-1-sources-jar/org/jline/reader/impl/BufferImpl.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/linux/LinuxNativePty.java
* /jline-3-25-1-sources-jar/org/jline/style/StyleResolver.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /jline-3-25-1-sources-jar/org/jline/utils/WriterOutputStream.java
* /jline-3-25-1-sources-jar/org/jline/builtins/ssh/Ssh.java
* /jline-3-25-1-sources-jar/org/jline/builtins/ssh/ShellCommand.java
* /jline-3-25-1-sources-jar/org/jline/reader/Buffer.java
*
 /jline-3-25-1-sources-jar/org/jline/utils/PumpReader.java
* /jline-3-25-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/freebsd/FreeBsdNativePty.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/solaris/SolarisNativePty.java
* /jline-3-25-1-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinConsoleWriter.java
* /jline-3-25-1-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-3-25-1-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java

1.507 maven-artifact 3.9.6

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1.508 libuv 1.43.0-1ubuntu0.1

1.508.1 Available under license :

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1.509 tcpdump 4.99.1-3ubuntu0.2

1.509.1 Available under license :

```
# -*- perl -*-

$testlist = [
  # This specific test fails on OpenBSD because the .pcap file uses DLT_RAW,
  # which OpenBSD treats as DLT_LOOP. The macro is set on all three BSDs.
  {
    config_unset => 'HAVE_NET_IF_PFLOG_H',
    name => 'heap-overflow-1',
    input => 'heap-overflow-1.pcap',
    output => 'heap-overflow-1.out',
    args   => '-v'
  },
];

1;
```

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1.510 giflib 5.2.2

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1.511 metrics-annotation 4.2.23

1.511.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.annotation
Build-Jdk-Spec: 17
Bundle-Description: A dependency-less package of just the annotations

used by other Metrics modules.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Annotations for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.annotation
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.annotation;version="4.2.23"
Implementation-Title: Annotations for Metrics
Implementation-Version: 4.2.23
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-annotation-4-2-23-jar/META-INF/MANIFEST.MF

1.512 metrics-health-checks 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.health
Build-Jdk-Spec: 17
Bundle-Description: An addition to Metrics which provides the ability
to run application-specific health checks, allowing you to che
ck your application's heath in production.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Health Checks
Bundle-SymbolicName: io.dropwizard.metrics.healthchecks
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.health;uses:="com.codahale.metric
s";version="4.2.23",com.codahale.metrics.health.annotation;version="4
.2.23",com.codahale.metrics.health.jvm;uses:="com.codahale.metrics.he
alth,com.codahale.metrics.jvm";version="4.2.23"
Implementation-Title: Metrics Health Checks
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
 ;version="[4.2,5)",com.codahale.metrics.health,com.codahale.metrics.h
ealth.annotation,com.codahale.metrics.jvm;version="[4.2,5)";resolutio
n:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):

* /metrics-healthchecks-4-2-23-jar/META-INF/MANIFEST.MF

1.513 metrics-jvm 4.2.23

1.513.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jvm
Build-Jdk-Spec: 17
Bundle-Description: A set of classes which allow you to monitor critic
al aspects of your Java Virtual Machine using Metrics.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: JVM Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.jvm
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,j
avax.management";version="4.2.23"
Implementation-Title: JVM Integration for Metrics
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;r
esolution:=optional,com.codahale.metrics;version="[4.2,5)",javax.mana
gement
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jvm-4-2-23-jar/META-INF/MANIFEST.MF

1.514 metrics-graphite 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 17
Bundle-Description: A reporter for Metrics which announces measurement
s to a Graphite server.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Graphite Integration for Metrics
Bundle-SymbolicName: io.dropwizard.metrics.graphite
Bundle-Version: 4.2.23

Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.graphite;uses:="com.codahale.metr
ics,com.rabbitmq.client,javax.net";version="4.2.23"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.2.23
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",com.rabbitmq.client;version="[5.20,6)",javax.net
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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1.515 zookeeper-jute 3.8.4

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```

Found in path(s):
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/package.html
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/package.html
*
 /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/package.html
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```

Found in path(s):
* /zookeeper-jute-3-8-4-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml
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```

Found in path(s):
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/RccTokenManager.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/Rcc.java
*
 /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/rcc.jj
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/Token.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/ParseException.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/RccConstants.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java

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```
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* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/SetDataTxn.java
*
 /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/Id.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/WatcherEvent.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetDataResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/ACL.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/MultiHeader.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SyncResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/ClientInfo.java
*
 /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/TxnHeader.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetWatches.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/FileHeader.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/RequestHeader.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ConnectRequest.java
```

* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java
*
/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/CreateResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/Stat.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/AuthPacket.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetChildren2Response.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/Create2Response.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetACLRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ErrorResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetDataRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ReplyHeader.java
*
/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/Txn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetACLResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/CreateRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetACLResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/DeleteRequest.java
*
/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SyncRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ConnectResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateTxnV0.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/DeleteTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/MultiTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetDataResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetACLRequest.java
*
/zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/TxnDigest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateTTLTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/WhoAmIResponse.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/data/StatPersisted.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CloseSessionTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/proto/SetWatches2.java

* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/zookeeper/txn/SetACLTxn.java
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* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JVector.java
*
 /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/OutputArchive.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/CppGenerator.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JDouble.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/BinaryOutputArchive.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/CGenerator.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JType.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JString.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JFile.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/Record.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/ToStringOutputArchive.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/RecordWriter.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JLong.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/RecordReader.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/BinaryInputArchive.java
*
 /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/InputArchive.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/CSharpGenerator.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JBuffer.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JCompType.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JBoolean.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JInt.java

* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JRecord.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JField.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JavaGenerator.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/Index.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JByte.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JMap.java
* /zookeeper-jute-3-8-4-sources-jar/org/apache/jute/compiler/JFloat.java

1.516 zookeeper 3.8.4

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*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/OpResult.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatchesReport.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatchesPathReport.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/Op.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/MultiResponse.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/MultiOperationRecord.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatchesSummary.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerConf.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ContainerManager.java
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 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/EphemeralType.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/util/MessageTracker.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/util/CircularBuffer.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControllerService.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatcherModeManager.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControllableConnection.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumStats.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/MetricsProvider.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/CreateMode.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/PEMFileLoader.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/ListQuotaCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/Leader.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/KeyStoreLoader.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/NettyUtils.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/FinalRequestProcessor.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/UpgradeableSessionTracker.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/KeyStoreFileType.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/auth/SASLAuthenticationProvider.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/audit/AuditEvent.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/ClientX509Util.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/SaslServerPrincipal.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/impl/DefaultMetricsProvider.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/ConsCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/AckRequestProcessor.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/CounterSet.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/FollowerMXBean.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ZooKeeperCriticalThread.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerHandlerMXBean.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/JKSFileLoader.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LeaderElectionBean.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/client/HostProvider.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/NodeHashMap.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/FastLeaderElection.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/DataTree.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/client/ZKClientConfig.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/TxnLogProposalIterator.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/admin/JsonOutputter.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/MonitorCommand.java

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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/TxnLog.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/SessionTracker.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ObserverBean.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/DataTreeMXBean.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ConnectionMXBean.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/metric/AvgMinMaxCounterSet.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/ZKWatchManager.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/FourLetterCommands.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/RemoveWatchesCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/ZKHostnameVerifier.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumCnxManager.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/SyncedLearnerTracker.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/Summary.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/CreateOptions.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LeaderMXBean.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/DeleteAllCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/util/AuthUtil.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/SnapShot.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatcherOrBitSet.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/auth/QuorumAuth.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/ClientCnxnSocket.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/SetTraceMaskCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/BlueThrottle.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/ClientCnxnSocketNIO.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/PrependableSocket.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/CommitProcessor.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/util/BitHashSet.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/audit/AuditLogger.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/command/DumpCommand.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/SnapStream.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/SnapshotInfo.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/FileKeyStoreLoaderBuilderProvider.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/AtomicFileOutputStream.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerShutdownHandler.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumServerCallbackHandler.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/RequestThrottler.java

* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ReferenceCountedACLCache.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/KeeperException.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/NIOServerCnxnFactory.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/util/ZxidUtils.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/metrics/GaugeSet.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/StateSummary.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/FileTxnLog.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerHandler.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/CloseCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/ClientCnxnSocketNetty.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/ServerBean.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/Vote.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/Version.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/auth/EnsembleAuthenticationProvider.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/ObserverZooKeeperServer.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/PurgeTxnLog.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/DigestWatcher.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/client/ZooKeeperSaslClient.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ServerWatcher.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatchManager.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerSender.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/auth/QuorumAuthLearner.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ServerConfig.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/ZKTrustManager.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/AddWatchCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/WatchDeregistration.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/SaslClientCallbackHandler.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/VersionCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/GetAclCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/cli/LsCommand.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/BCFKSFileLoader.java
*
 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControllableConnectionFactory.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/PathParentIterator.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatcherMode.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/embedded/ExitHandler.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/util/CircularBlockingQueue.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControlCommand.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/TxnLogEntry.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbedded.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/controller/ControllerServerConfig.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/SnapshotComparer.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/PathTrie.java
* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/PathUtils.java

1.517 kubernetes-model-flowcontrol 6.5.1

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1.518 kubernetes-model-common 6.5.1

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* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Plural.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Generated.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/ShortNames.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/util/Helper.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/Scope.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/StatusReplicas.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Singular.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Kind.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/jackson/BeanPropertyWriterDelegate.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/PrinterColumn.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/jackson/SettableBeanPropertyDelegate.java
* /kubernetes-model-common-6-5-1-sources-1-

jar/io/fabric8/kubernetes/model/jackson/UnmatchedFieldTypeModule.java
* /kubernetes-model-common-6-5-1-sources-1-
jar/io/fabric8/kubernetes/model/jackson/JsonUnwrappedDeserializer.java
*
 /kubernetes-model-common-6-5-1-sources-1-
jar/io/fabric8/kubernetes/model/jackson/UnwrappedTypeResolverBuilder.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/LabelSelector.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Group.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/Version.java
* /kubernetes-model-common-6-5-1-sources-1-jar/io/fabric8/kubernetes/model/annotation/SpecReplicas.java

1.519 kubernetes-httpclient-okhttp 6.5.1

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#

io.fabric8.kubernetes.client.okhttp.OkHttpClientFactory
```

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1.520 kubernetes-model-resource 6.5.1

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1.521 kubernetes-model-node 6.5.1

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```
Manifest-Version: 1.0
Build-Jdk-Spec: 1.8
Bundle-Description: Java client for Kubernetes and OpenShift
Bundle-DocURL: http://redhat.com
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Node
Bundle-SymbolicName: io.fabric8.kubernetes-model-node
Bundle-Vendor: Red Hat
Bundle-Version: 6.5.1
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.node.v1;uses:="com.fas
terxml.jackson.annotation,com.fasterxml.jackson.databind,com.fasterxm
l.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,io.fa
bric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotation";ve
rsion="6.5.1",io.fabric8.kubernetes.api.model.node.v1alpha1;uses:="co
m.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com.fas
terxml.jackson.databind.annotation,io.fabric8.kubernetes.api.builder,
io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annotatio
 n";version="6.5.1",io.fabric8.kubernetes.api.model.node.v1beta1;uses:
="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind,com
.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.buil
der,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.annot
ation";version="6.5.1"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-node/
Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",co
m.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson
.databind.annotation;version="[2.14,3)",io.fabric8.kubernetes.api.bui
lder;version="[6.5,7)",io.fabric8.kubernetes.api.model,io.fabric8.kub
ernetes.model.annotation;version="[6.5,7)"
Include-Resource: META-INF/services/io.fabric8.kubernetes.api.model.Ku
bernetesResource=target/classes/META-INF/services/io.fabric8.kubernet
es.api.model.KubernetesResource,schema/kube-schema.json=src/main/reso
urces/schema/kube-schema.json,schema/validation-schema.json=src/main/
```

resources/schema/validation-schema.json,manifest.vm=src/main/resource
s/manifest.vm,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx
Private-Package: schema
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.
kubernetes.api.model.KubernetesResource"
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.service
loader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-node
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-node/
Specification-Title: Fabric8 :: Kubernetes Model :: Node
Specification-Vendor: Red Hat
Specification-Version: 6.5
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /kubernetes-model-node-6-5-1-2-jar/META-INF/MANIFEST.MF

1.522 simpleclient-dropwizard 0.16.0

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1.523 kubernetes-model 6.5.1

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1.524 dpkg 1.21.1ubuntu2.3

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1.525 kubernetes-model-gatewayapi 6.5.1

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Bundle-ManifestVersion: 2
Bundle-Name: Fabric8 :: Kubernetes Model :: Sigs :: Gateway API
Bundle-SymbolicName: io.fabric8.kubernetes-model-gatewayapi
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Bundle-Version: 6.5.1
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: io.fabric8.kubernetes.api.model.gatewayapi.v1alpha2;us
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Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
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Import-Package: com.fasterxml.jackson.annotation;version="[2.14,3)",co
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bernetesResource=target/classes/META-INF/services/io.fabric8.kubernet
es.api.model.KubernetesResource,schema/kube-schema.json=src/main/reso
urces/schema/kube-schema.json,schema/validation-schema.json=src/main/
resources/schema/validation-schema.json,manifest.vm=src/main/resource
 s/manifest.vm,/META-INF/jandex.idx=target/classes/META-INF/jandex.idx
Private-Package: schema
Provide-Capability: osgi.serviceloader;osgi.serviceloader="io.fabric8.
kubernetes.api.model.KubernetesResource"
Require-Capability: osgi.extender;filter:="(osgi.extender=osgi.service
loader.registrar)",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Scm-Connection: scm:git:git@github.com:fabric8io/kubernetes-client.git
/kubernetes-model-generator/kubernetes-model-gatewayapi
```

Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-gatewayapi/
Specification-Title: Fabric8 :: Kubernetes Model :: Sigs :: Gateway AP
I
Specification-Vendor: Red Hat
Specification-Version: 6.5
Tool: Bnd-6.3.1.202206071316

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* /kubernetes-model-gatewayapi-6-5-1-2-jar/META-INF/MANIFEST.MF
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1.526 kubernetes-client-api 6.5.1

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1.527 jackson-databind 2.16.2

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1.528 jackson 2.16.2

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

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

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

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

Apache

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

MortBay

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.530 bash 5.1-6ubuntu1.1

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1.531 javassist 3.30.2-GA

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* /javassist-3-30-2-ga-sources-1-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/analysis/ControlFlow.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/compiler/ast/CallExpr.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/compiler/ast/IntConst.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/util/proxy/ProxyObjectInputStream.java
*
 /javassist-3-30-2-ga-sources-1-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/expr/Expr.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/ConstantAttribute.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/AnnotationsAttribute.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/ClassClassPath.java
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Found in path(s):
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
*
/javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
*
/javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-30-2-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java

1.532 zlib 1.3.1

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1.533 go-openapi-jsonpointer 0.21.0

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1.534 spring-framework 5.3.33

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```
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/SpringAsmInfo.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ResourceLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/StopWatch.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/Constants.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxEventXMLReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
* /spring-core-5-3-33-sources-
```

jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/InputStreamSource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ConcurrentLruCache.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/NativeDetector.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/PatternMatchUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/AttributeAccessor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/StandardClassMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SpringProperties.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/MethodMetadata.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/GenericTypeResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/OrderComparator.java
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 /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/SimpleIdGenerator.java

* /spring-core-5-3-33-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
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jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertySource.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupEvent.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/Assert.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/IdGenerator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/StringDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ResourceDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/PropertySourceFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/Hints.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/MultiValueMapAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/FileCopyUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/CustomizableThreadCreator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/MapPropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/log/LogAccessor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/Conventions.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertyResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/Deserializer.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/Serializer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/MimeTypeUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/AliasRegistry.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/PropertiesPersister.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/ApplicationStartup.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/InstanceComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/metrics/StartupStep.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/FileUrlResource.java
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/spring-core-5-3-33-sources-jar/org/springframework/util/CommonsLogWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/StreamUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SortedProperties.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/SystemPropertyUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/AttributeAccessorSupport.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
*
/spring-core-5-3-33-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/KotlinDetector.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/style/StylerUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java
*
/spring-core-5-3-33-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/SyncTaskExecutor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java

* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/TypeFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/backoff/BackOff.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ErrorHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/TaskExecutor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ProtocolResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/UsesSunMisc.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/objenesis/SpringObjenesis.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/backoff/BackOffExecution.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/CommandLineArgs.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/FailureCallback.java
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jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/CompositeIterator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/DomUtils.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/function/SupplierUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/AutoPopulatingList.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/Comparators.java
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 /spring-core-5-3-33-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/ListBasedXMLEventReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/ComparableComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/DescriptiveResource.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ResourceUtils.java

* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/BooleanComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/UsesJava7.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/InputStreamResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
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 /spring-core-5-3-33-sources-jar/org/springframework/core/NestedRuntimeException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/VfsUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/function/SingletonSupplier.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxEventHandler.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/NamedThreadLocal.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFutureCallback.java
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 /spring-core-5-3-33-sources-jar/org/springframework/util/xml/DomContentHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/NettyDataBufferFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/NestedCheckedException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ExceptionDepthComparator.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/PathResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/log/LogMessage.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/FileSystemUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ParameterizedTypeReference.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/GenericConversionService.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/MethodInvoker.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ReflectionUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/CommandLinePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ReactiveAdapterRegistry.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/env/ProfilesParser.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/MethodIntrospector.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/InstanceFilter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/ResolvableType.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ClassPathResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/TypeDescriptor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/DefaultDeserializer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/OrderUtils.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/log/LogFormatUtils.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/backoff/ExponentialBackOff.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ConcurrentReferenceHashMap.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/io/UrlResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AbstractMergedAnnotation.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/DigestUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/AntPathMatcher.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/Resource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/AbstractEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
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 /spring-core-5-3-33-sources-jar/org/springframework/core/io/AbstractResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/KotlinReflectionParameterNameDiscoverer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/CoroutinesUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationTypeMapping.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/Property.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/CollectionUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotations.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/BridgeMethodResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/DefaultResourceLoader.java

* /spring-core-5-3-33-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/NestedIOException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/TaskRejectedException.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/MimeType.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/unit/DataSize.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/AbstractEnvironment.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SimpleAliasRegistry.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/SerializationUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationTypeMappings.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/FastByteArrayOutputStream.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxStreamHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ExceptionTypeFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToCollectionConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/SpringCglibInfo.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/ClassUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AttributeMethods.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SerializableTypeWrapper.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/StringValueResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToArrayConverter.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/codec/CodecException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/DecoratingClassLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/WritableResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/EnvironmentCapable.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StreamConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/EncodingException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/EncodedResource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/ClassMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/DefaultConversionService.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/CompositePropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/DecodingException.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/FutureAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/NonNullApi.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ResolvableTypeProvider.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/InvalidMimeTypeException.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/ConversionService.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/Order.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/ResourceEditor.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/style/ToStringStyler.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/util/NumberUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/style/DefaultToStringStyler.java

* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractXMLReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/MethodClassKey.java
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* /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/FixedKeySet.java
* /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/BulkBeanException.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/serializer/support/SerializationDelegate.java
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java

* /spring-core-5-3-33-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/JdkIdGenerator.java
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* /spring-core-5-3-33-sources-jar/org/springframework/asm/Frame.java
*
/spring-core-5-3-33-sources-jar/org/springframework/asm/Opcodes.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/RecordComponentWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Context.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/AnnotationVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/MethodWriter.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/FieldWriter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/asm/AnnotationWriter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/asm/Type.java
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*
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* /spring-core-5-3-33-sources-jar/org/springframework/asm/TypePath.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/ModuleWriter.java
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* /spring-core-5-3-33-sources-jar/org/springframework/asm/ClassVisitor.java

* /spring-core-5-3-33-sources-jar/org/springframework/asm/ClassReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/asm/Handle.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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 /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/BeanCopier.java
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* /spring-core-5-3-33-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/AbstractRecursiveAnnotationVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/lang/NonNull.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/Ordered.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/PriorityOrdered.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/env/PropertiesPropertySource.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/RecursiveAnnotationArrayVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/MultiValueMap.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/AnnotationMetadata.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/ClassMetadataReadingVisitor.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/SimpleRouteMatcher.java

* /spring-core-5-3-33-sources-jar/org/springframework/util/unit/DataUnit.java
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/spring-core-5-3-33-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/PathMatcher.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/classreading/AnnotationReadingVisitorUtils.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/RecursiveAnnotationAttributesVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/Base64Utils.java
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/spring-core-5-3-33-sources-jar/org/springframework/core/codec/ResourceEncoder.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SpringVersion.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/RouteMatcher.java
* /spring-core-5-3-33-sources-
jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
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/spring-core-5-3-33-sources-jar/org/springframework/lang/NonNullFields.java
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1.540 pflag 1.0.5

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1.543 jsonpatch 5.9.0+incompatible

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1.544 gettext-go 1.0.2

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1.545 six 1.16.0

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Manifest-Version: 1.0
Bnd-LastModified: 1649403223965
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: This module provides an interface for efficiently wr
iting localized messages out to a SLF4J Logger
Bundle-DocURL: https://github.com/OpenIdentityPlatform
Bundle-License: http://www.opensource.org/licenses/CDDL-1.0
Bundle-ManifestVersion: 2
Bundle-Name: org.openidentityplatform.commons.i18n-framework.slf4j
Bundle-SymbolicName: org.openidentityplatform.commons.i18n-framework.slf
4j
Bundle-Vendor: Open Identity Platform Community
Bundle-Version: 2.0.13
Created-By: Apache Maven Bundle Plugin
Export-Package: org.forgerock.i18n.slf4j;uses:="org.slf4j,org.forgerock.
i18n";version="2.0.13"
Import-Package: org.forgerock.i18n;version="[2.0,3)",org.slf4j;version="
[1.7,2)"
Tool: Bnd-1.50.0

Found in path(s):
* /slf4j-2-0-13-jar/META-INF/MANIFEST.MF

1.547 xxhash 2.3.0

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1.548 jackson-annotations 2.16.1

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1.550 jaraco-functools 4.0.1

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1.551 scala-logging_2.13 3.9.5

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Found in path(s):
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/ServerListener.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java

* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java
*
 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/event/SaxEvent.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/RuleStore.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/LoginAuthenticator.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/helpers/NOPAppender.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/NestedComplexPropertyIA.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/util/IEscapeUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/DynamicConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/Interpreter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/parser/Parser.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/LiteralConverter.java
*
 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/property/ResourceExistsPropertyDefiner.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/DefaultNestedComponentRegistry.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/FileSize.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/AbstractEventEvaluatorAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/Converter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/RollingPolicyBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/ShutdownHookAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/sift/DefaultDiscriminator.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/hook/ShutdownHook.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/RemoteReceiverServerRunner.java
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 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/sift/AppenderFactory.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/conditional/IfAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/CompressionMode.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/FileAppender.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/subst/Node.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/DefinePropertyAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/TimestampAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/SSLParametersConfiguration.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/StatusListenerAsList.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/StatusUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java
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 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/event/InPlayListener.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/boolex/EvaluationException.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/BasicStatusManager.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/parser/Node.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/FileNamePattern.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/OptionHelper.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/hook/DelayingShutdownHook.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/StatusManager.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/html/CssBuilder.java

* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/FileFilterUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/helpers/CyclicBuffer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/ContextBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/PropertyContainer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/ContextAware.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/helpers/Transform.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/Status.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/subst/Tokenizer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/FileStoreUtil.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/SyslogConstants.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/encoder/Encoder.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/JoranException.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/AppenderAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/NewRuleAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/SpacePadder.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/UnsynchronizedAppenderBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/NOPAction.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/CloseUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/RemoteReceiverClient.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ObjectWriterFactory.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/FilterAttachableImpl.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/event/stax/BodyEvent.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/BoldYellowCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/layout/EchoLayout.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/conditional/ElseAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/encoder/LayoutWrappingEncoder.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/IADataForComplexProperty.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/sift/AbstractAppenderFactoryUsingJoran.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/IADataForBasicProperty.java

* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/sift/Discriminator.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/DynamicClassLoadingException.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java
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 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/property/FileExistsPropertyDefiner.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/BlueCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/StatusListener.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/Action.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/PropertySetterException.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/conditional/ThenAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/Duration.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/TriggeringPolicyBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/hook/ShutdownHookBase.java
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 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/SyslogAppenderBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/event/stax/StartEvent.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/ErrorStatus.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/OnConsoleStatusListener.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/Layout.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/SSL.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/InfoStatus.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/Loader.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/AbstractServerSocketAppender.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/WarnStatus.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/XMLUtil.java
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 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/LogbackException.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/GreenCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/FormattingConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/event/EndEvent.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/DefaultClass.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/CyclicBufferTracker.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/ConfigurationWatchList.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/CompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/DelayStrategy.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/StringCollectionUtil.java
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* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/SocketConnector.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/util/RegularEscapeUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/GenericConfigurator.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/ImplicitAction.java

* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/MonoTypedConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/StatusPrinter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/ConversionRuleAction.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/subst/Parser.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/SystemInfo.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/DateTokenConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/ConsoleAppender.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/RollingFileAppender.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/EventPlayer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/parser/Token.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/NopStatusListener.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java
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* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/filter/Filter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/Client.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/PreSerializationTransformer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
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* /logback-core-1-2-13-sources-1-
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* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/encoder/EchoEncoder.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/AppenderBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/LogbackLock.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/DeferredProcessingAware.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/TriggeringPolicy.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/action/ActionConst.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/util/PropertySetter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/filter/EvaluatorFilter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/ServerRunner.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/read/ListAppender.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/html/NOPThrowableRenderer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/DefaultSocketConnector.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/ContextUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/util/AlmostAsIsEscapeUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
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/logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/RolloverFailure.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/ComponentTracker.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/parser/CompositeNode.java

* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/SMTPAppenderBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/BoldCyanCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/TokenConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/QueueFactory.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/sift/SiftingJoranConfiguratorBase.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/parser/FormattingNode.java
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 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/PropertyDefiner.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/event/stax/StaxEvent.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/spi/AppenderAttachable.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/util/AsIsEscapeUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/joran/util/StringToObjectConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/parser/OptionTokenizer.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/server/ServerSocketListener.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/ExecutorServiceUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/LifeCycleManager.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java
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 /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/BoldMagentaCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/rolling/helper/SizeAndTimeBasedArchiveRemover.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java
* /logback-core-1-2-13-sources-1-jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java
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1.558 tomli 2.0.1

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 /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
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* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java

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* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/PoolSubpageMetric.java
* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/PoolArenaMetric.java
* /netty-buffer-4-1-105-final-sources-jar/io/netty/buffer/PoolChunkMetric.java
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1.580 toml 1.4.0

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1.585 viper 1.19.0

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1.586 more-itertools 10.3.0

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1.587 zipp 3.19.2

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1.588 kubernetes-klog 2.130.1

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1.589 util-linux 1:2.37.2-4ubuntu3.4

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properly with a modified version of the library, if
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1.598 prometheus-client 1.19.1

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1.602 logback-access 1.2.13

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*/
```

Found in path(s):
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ElapsedSecondsConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/SessionIDConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/QueryStringConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ThreadNameConverter.java

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```
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-- conditions.

-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--
-- It is intended for Oracle databases.


CREATE SEQUENCE access_event_id_seq MINVALUE 1 START WITH 1;


CREATE TABLE access_event
 (
   timestmp         NUMBER(20) NOT NULL,
   requestURI    VARCHAR(254),
   requestURL        VARCHAR(254),
   remoteHost       VARCHAR(254),
```

```
  remoteUser       VARCHAR(254),
  remoteAddr       VARCHAR(254),
  protocol         VARCHAR(254),
  method           VARCHAR(254),
  serverName       VARCHAR(254),
  postContent      VARCHAR(254),
  event_id         NUMBER(20) PRIMARY KEY
 );

-- the / suffix may or may not be needed depending on your SQL Client
--
 Some SQL Clients, e.g. SQuirrel SQL has trouble with the following
-- trigger creation command, while SQLPlus (the basic SQL Client which
-- ships with Oracle) has no trouble at all.

CREATE TRIGGER access_event_id_seq_trig
 BEFORE INSERT ON access_event
 FOR EACH ROW
 BEGIN
  SELECT access_event_id_seq.NEXTVAL
  INTO   :NEW.event_id
  FROM   DUAL;
 END access_event_id_seq_trig;
/

CREATE TABLE access_event_header
 (
  event_id       NUMBER(20) NOT NULL,
  header_key       VARCHAR2(254) NOT NULL,
  header_value     VARCHAR2(1024),
  PRIMARY KEY(event_id, header_key),
  FOREIGN KEY (event_id) REFERENCES access_event(event_id)
 );
```

Found in path(s):
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/oracle.sql
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*/

Found in path(s):
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SSLSocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/Util.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByDay.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByHour.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/PatternLayoutEncoder.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestURIConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/ServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteHostConverter.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftingAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/HTMLLayout.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/PeriodicStats.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/CountingFilter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/AccessEvent.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftAction.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java
*
 /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/NAConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteUserConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/IAccessEvent.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/action/EvaluatorAction.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/DefaultCssBuilder.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/RequestLogImpl.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/jetty/JettyServerAdapter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/JoranConfigurator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ContentLengthConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
*

/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestCookieConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/html/UrlCssBuilder.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/joran/action/ConfigurationAction.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByWeek.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/URLEvaluator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SMTPAppender.java
*
/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/StatusCodeConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/FullRequestConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/PatternLayout.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByMonth.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/AccessConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/AccessConstants.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java
*
/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatsByMinute.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/TeeFilter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/SocketNode.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/DateConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/servlet/Util.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestContentConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/spi/AccessContext.java
*
/logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/tomcat/LogbackValve.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/LocalPortConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/filter/StatisticalView.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/pattern/RequestURLConverter.java
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java
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--

```
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-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
--

DROP TABLE access_event_header
DROP TABLE access_event

CREATE TABLE access_event
 (
   timestmp          BIGINT NOT NULL,
   requestURI        VARCHAR(254),
   requestURL        VARCHAR(254),
   remoteHost        VARCHAR(254),
   remoteUser        VARCHAR(254),
   remoteAddr        VARCHAR(254),
   protocol          VARCHAR(254),
   method            VARCHAR(254),
   serverName        VARCHAR(254),
   postContent       VARCHAR(254),
   event_id          INT NOT NULL identity,
   PRIMARY KEY(event_id)
 )

CREATE TABLE access_event_header
 (
   event_id          INT NOT NULL,
   header_key
       VARCHAR(254) NOT NULL,
   header_value      VARCHAR(1024),
   PRIMARY KEY(event_id, header_key),
   FOREIGN KEY (event_id) REFERENCES access_event(event_id)
 )
```

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* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/msSQLServer.sql
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* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/hsqldb.sql

* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/postgresql.sql
* /logback-access-1-2-13-sources-1-jar/ch/qos/logback/access/db/script/db2.sql

1.603 jansi - java library for generating and interpreting ansi escape sequences. 1.5.0

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1.604 platformdirs 4.2.2

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

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1.612 e2fsprogs 1.46.5-2ubuntu1.2

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

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

all:: image

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

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

image:  $(BSD_LIB)

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

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

```
install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

    ** NOTE! The following LGPL license applies to the tdb
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```

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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.613 lib-pq 1.10.9

1.613.1 Available under license :

```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
```

```
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.614 kr-fs 0.1.0

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1.615 pkg-sftp 1.13.6

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1.616 speakeasy 0.1.0

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1.617 reflectwalk 1.0.2

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1.618 color 1.13.0

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1.619 mitchellh-copystructure 1.2.0

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1.621 golang-snappy 0.0.4

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1.625 cast 1.7.0

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1.630 pwauth 2.3.11-5

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* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_hpux.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_mdw.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_openbsd.c
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* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_sun.c
* /pwauth-2-3-11-orig-2-tar-gz/pwauth-2.3.11/auth_bsd.c

1.631 libapache2-mod-authnz-external 3.3.2-0.2

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1.632 libapache2-mod-authz-unixgroup 1.1.0-1

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you first think carefully about whether
this license or the ordinary General Public License is the better
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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be optional: if the application does not supply it, the square
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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* /jline-style-3-25-1-sources-2-jar/org/jline/style/InterpolationHelper.java
* /jline-style-3-25-1-sources-2-jar/org/jline/style/StyleColor.java
* /jline-style-3-25-1-sources-2-jar/org/jline/style/NopStyleSource.java
* /jline-style-3-25-1-sources-2-jar/org/jline/style/MemoryStyleSource.java
* /jline-style-3-25-1-sources-2-jar/org/jline/style/StyledWriter.java

1.645 jline-remote-telnet 3.25.1

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*
 /jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/PortListener.java
* /jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/Connection.java
* /jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/ConnectionManager.java
* /jline-remote-telnet-3-25-1-sources-2-jar/org/jline/builtins/telnet/ConnectionEvent.java
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1.646 jline-reader 3.25.1

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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/PrintAboveWriter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/history/DefaultHistory.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Highlighter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Parser.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/InputRC.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/LineReader.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/BufferImpl.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Buffer.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/SimpleMaskingCallback.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/KillRing.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/CompletingParsedLine.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Completer.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/keymap/BindingReader.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/History.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/ParsedLine.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/MaskingCallback.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/EOFError.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/SyntaxError.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/package-info.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/package-info.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Candidate.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Binding.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/UserInterruptException.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Expander.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Widget.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/NullCompleter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Reference.java

* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/UndoTree.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/keymap/KeyMap.java
*
 /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/Macro.java
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* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/EndOfFileException.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-reader-3-25-1-sources-2-jar/org/jline/reader/impl/DefaultParser.java

1.647 jline-native 3.25.1

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1.648 jline-remote-ssh 3.25.1

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* /jline-remote-ssh-3-25-1-sources-2-jar/org/jline/builtins/ssh/Ssh.java
* /jline-remote-ssh-3-25-1-sources-2-jar/org/jline/builtins/ssh/ShellFactoryImpl.java

1.649 jline-terminal-jna 3.25.1

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* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
*
 /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /jline-terminal-jna-3-25-1-sources-2-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
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#
class = org.jline.terminal.impl.jna.JnaTerminalProvider

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1.650 jansi-core 3.25.1

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* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/AnsiOutputStream.java
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* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/FastBufferedOutputStream.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiConsole.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/WindowsAnsiProcessor.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiMode.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/Colors.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiPrintStream.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiRenderer.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/WindowsSupport.java
*
 /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/AnsiProcessor.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiMain.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiType.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/AnsiColors.java
* /jansi-core-3-25-1-sources-2-jar/org/jline/jansi/io/ColorsAnsiProcessor.java

1.651 jline-terminal 3.25.1

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```

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#
class = org.jline.terminal.impl.exec.ExecTerminalProvider

Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/META-INF/services/org/jline/terminal/provider/exec
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-->

Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
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Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingReader.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/Terminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/StyleResolver.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlocking.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Timeout.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/Size.java
*
 /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/ExternalTerminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Curses.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingInputStreamImpl.java

* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Colors.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedStringBuilder.java
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Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/ColorPalette.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Display.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Signals.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Log.java
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Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/InfoCmp.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Status.java
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Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/DumbTerminalProvider.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/TerminalExt.java

* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/SystemStream.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
 NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz

transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC

clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN

enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
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flash_hook, hook, fh
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goto_window, wingo, WG
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init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
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key_a3, ka3, K3
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key_backspace, kbs, kb
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key_dc, kdch1, kD
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key_f26, kf26, FG
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key_f4, kf4, k4
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key_f42, kf42, FW
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key_f44, kf44, FY
key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
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key_f58, kf58,
Fm
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key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
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key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kil1, kA
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key_move, kmov, %4
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key_options, kopt, %7
key_ppage, kpp, kP
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key_print, kprt, %9
key_redo, krdo, %0
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key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku

keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn

print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0

user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl

enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/capabilities.txt
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black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua

white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
green3a
springgreen3a
springgreen2
cyan3
darkturquoise
turquoise2
green1
springgreen2a
springgreen1
mediumspringgreen
cyan2
cyan1
darkred
deeppink4
purple4
purple4a
purple3
blueviolet
orange4
grey37
mediumpurple4
slateblue3
slateblue3a

royalblue1
chartreuse4
darkseagreen4
paleturquoise4
steelblue
steelblue3
cornflowerblue
chartreuse3
darkseagreen4a
cadetblue
cadetbluea
skyblue3
steelblue1
chartreuse3a
palegreen3
seagreen3
aquamarine3
mediumturquoise
steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
darkslategray2
darkreda
deeppink4a
darkmagenta
darkmagentaa
darkviolet
purplea
orange4a
lightpink4
plum4
mediumpurple3
mediumpurple3a
slateblue1
yellow4
wheat4
grey53
lightslategrey
mediumpurple
lightslateblue
yellow4a
darkolivegreen3
darkseagreen
lightskyblue3
lightskyblue3a

skyblue2
chartreuse2a
darkolivegreen3a
palegreen3a
darkseagreen3
darkslategray3
skyblue1
chartreuse1
lightgreen
lightgreena
palegreen1
aquamarine1a
darkslategray1
red3
deeppink4b
mediumvioletred
magenta3
darkvioleta
purpleb
darkorange3
indianred
hotpink3
mediumorchid3
mediumorchid
mediumpurple2
darkgoldenrod
lightsalmon3
rosybrown
grey63
mediumpurple2a
mediumpurple1
gold3
darkkhaki
navajowhite3
grey69
lightsteelblue3
lightsteelblue
yellow3
darkolivegreen3b
darkseagreen3a
darkseagreen2
lightcyan3
lightskyblue1
greenyellow
darkolivegreen2
palegreen1a
darkseagreen2a
darkseagreen1

paleturquoise1
red3a
deeppink3
deeppink3a
magenta3a
magenta3b
magenta2
darkorange3a
indianreda
hotpink3a
hotpink2
orchid
mediumorchid1
orange3
lightsalmon3a
lightpink3
pink3
plum3
violet
gold3a
lightgoldenrod3
tan
mistyrose3
thistle3
plum2
yellow3a
khaki3
lightgoldenrod2
lightyellow3
grey84
lightsteelblue1
yellow2
darkolivegreen1
darkolivegreen1a
darkseagreen1a
honeydew2
lightcyan1
red1
deeppink2
deeppink1
deeppink1a
magenta2a
magenta1
orangered1
indianred1
indianred1a
hotpink
hotpinka

mediumorchid1a
darkorange
salmon1
lightcoral
palevioletred1
orchid2
orchid1
orange1
sandybrown
lightsalmon1
lightpink1
pink1
plum1
gold1
lightgoldenrod2a
lightgoldenrod2b
navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
grey3
grey7
grey11
grey15
grey19
grey23
grey27
grey30
grey35
grey39
grey42
grey46
grey50
grey54
grey58
grey62
grey66
grey70
grey74
grey78
grey82
grey85
grey89

grey93

Found
 in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/colors.txt
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/TerminalProvider.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/Diag.java
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* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AnsiWriter.java
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Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/AbstractTerminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedCharSequence.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedStyle.java

* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/TerminalBuilder.java
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* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/FastBufferedOutputStream.java
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```

Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/PumpReader.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/WriterOutputStream.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/NonBlockingPumpReader.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
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```

Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/package-info.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/package-info.java
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```
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```

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Found in path(s):
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/Attributes.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/AttributedString.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/exec/ExecPty.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/ShutdownHooks.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/Cursor.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/MouseSupport.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/InputStreamReader.java
*
 /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/ClosedException.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/Levenshtein.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/WCWidth.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/ExecHelper.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/spi/Pty.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/DiffHelper.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/terminal/MouseEvent.java
* /jline-terminal-3-25-1-sources-2-jar/org/jline/utils/OSUtils.java

1.652 jline-terminal-ffm 3.25.1

1.652.1 Available under license :

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Found in path(s):
* /jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/Kernel32.java
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distributed under the License is distributed on an "AS IS" BASIS,
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limitations under the License.
#
class = org.jline.terminal.impl.ffm.FfmTerminalProvider

Found in path(s):
* /jline-terminal-ffm-3-25-1-sources-2-jar/META-INF/services/org/jline/terminal/provider/ffm
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Found in path(s):
* /jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/NativeWinSysTerminal.java
* /jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/WindowsAnsiWriter.java
* /jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/FfmNativePty.java
* /jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/NativeWinConsoleWriter.java
* /jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/FfmTerminalProvider.java
* /jline-terminal-ffm-3-25-1-sources-2-jar/org/jline/terminal/impl/ffm/CLibrary.java
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Found in path(s):
* /jline-terminal-ffm-3-25-1-sources-2-jar/META-INF/maven/org.jline/jline-terminal-ffm/pom.xml

1.653 jline-terminal-jni 3.25.1

1.653.1 Available under license :

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```

Found in path(s):
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/win/NativeWinSysTerminal.java
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/JniNativePty.java
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/JniTerminalProvider.java
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#
class = org.jline.terminal.impl.jni.JniTerminalProvider
```

Found in path(s):
* /jline-terminal-jni-3-25-1-sources-2-jar/META-INF/services/org/jline/terminal/provider/jni
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Found in path(s):
* /jline-terminal-jni-3-25-1-sources-2-jar/META-INF/maven/org.jline/jline-terminal-jni/pom.xml
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Found in path(s):
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/linux/LinuxNativePty.java
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/win/NativeWinConsoleWriter.java
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/solaris/SolarisNativePty.java
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/freebsd/FreeBsdNativePty.java
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/osx/OsXNativePty.java
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Found in path(s):
* /jline-terminal-jni-3-25-1-sources-2-jar/org/jline/terminal/impl/jni/win/WindowsAnsiWriter.java

1.654 jline-terminal-jansi 3.25.1

1.654.1 Available under license :

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```

Found in path(s):
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```

Found in path(s):
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java
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Found in path(s):
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
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#
class = org.jline.terminal.impl.jansi.JansiTerminalProvider
```

Found in path(s):
* /jline-terminal-jansi-3-25-1-sources-2-jar/META-INF/services/org/jline/terminal/provider/jansi
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Found in path(s):
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /jline-terminal-jansi-3-25-1-sources-2-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java

1.655 metrics-logback 4.2.23

1.655.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.logback
Build-Jdk-Spec: 17
Bundle-Description: An instrumented appender for Logback.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.logback;uses:="ch.qos.logback.cla
ssic.spi,ch.qos.logback.core,com.codahale.metrics";version="4.2.23"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.2.23
Import-Package: ch.qos.logback.classic;version="[1.2,2)",ch.qos.logbac
k.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)"
,com.codahale.metrics;version="[4.2,5)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
/metrics-logback-4-2-23-jar/META-INF/MANIFEST.MF

1.656 metrics-caffeine 4.2.23

1.656.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.caffeine
Build-Jdk-Spec: 17
Bundle-Description: Metrics Integration for Caffeine 2.x.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Caffeine 2.x
Bundle-SymbolicName: io.dropwizard.metrics.caffeine
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.caffeine;uses:="com.codahale.metr

ics,com.github.benmanes.caffeine.cache,com.github.benmanes.caffeine.c
ache.stats,org.checkerframework.checker.index.qual";version="4.2.23"
Implementation-Title: Metrics Integration for Caffeine 2.x
Implementation-Version: 4.2.23
Import-Package: com.codahale.metrics;version="[4.2,5)",com.github.benm
anes.caffeine.cache;version="[2.9,3)",com.github.benmanes.caffeine.ca
che.stats;version="[2.9,3)",org.checkerframework.checker.index.qual;v
ersion="[3.41,4)"
Require-Capability:
 osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-caffeine-4-2-23-jar/META-INF/MANIFEST.MF

1.657 metrics-jetty 4.2.23

1.657.1 Available under license :

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

Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jetty9
Build-Jdk-Spec: 17
Bundle-Description: A set of extensions for Jetty 9.3 and higher which
 provide instrumentation of thread pools, connector metrics, a
nd application latency and utilization.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jetty 9.3 and higher
Bundle-SymbolicName: io.dropwizard.metrics.jetty9
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jetty9;uses:="com.codahale.metric
s,com.codahale.metrics.annotation,javax.servlet,javax.servlet.http,or
g.eclipse.jetty.io,org.eclipse.jetty.server,org.eclipse.jetty.server.
handler,org.eclipse.jetty.util.annotation,org.eclipse.jetty.util.comp
onent,org.eclipse.jetty.util.thread";version="4.2.23"
Implementation-Title: Metrics Integration for Jetty
 9.3 and higher
Implementation-Version: 4.2.23
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com
.codahale.metrics.annotation;version="[4.2,5)",org.eclipse.jetty.http
;version="[9.4,10)",org.eclipse.jetty.io;version="[9.4,10)",org.eclip
se.jetty.server;version="[9.4,10)",org.eclipse.jetty.server.handler;v
ersion="[9.4,10)",org.eclipse.jetty.util.annotation;version="[9.4,10)
",org.eclipse.jetty.util.component;version="[9.4,10)",org.eclipse.jet

ty.util.thread;version="[9.4,10)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jetty9-4-2-23-jar/META-INF/MANIFEST.MF

1.658 metrics-jersey2 4.2.23

1.658.1 Available under license :

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jersey2
Build-Jdk-Spec: 17
Bundle-Description: A set of class providing Metrics integration for J
ersey, the reference JAX-RS implementation.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Jersey 2.x
Bundle-SymbolicName: io.dropwizard.metrics.jersey2
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metri
cs,javax.ws.rs.core,javax.ws.rs.ext,org.glassfish.jersey.server.model
,org.glassfish.jersey.server.monitoring";version="4.2.23"
Implementation-Title: Metrics Integration for Jersey 2.x
Implementation-Version: 4.2.23
Import-Package: com.codahale.metrics;version="[4.2,5)",com.codahale.me
trics.annotation;version="[4.2,5)",javax.ws.rs.core;version="[2.1,3)"
,javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;versio
n="[2.41,3)",org.glassfish.jersey.server.model;version="[2.41,3)",org
.glassfish.jersey.server.monitoring;version="[2.41,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-jersey2-4-2-23-jar/META-INF/MANIFEST.MF

1.659 metrics-servlets 4.2.23

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.servlets

Build-Jdk-Spec: 17
Bundle-Description: A set of utility servlets for Metrics, allowing yo
u to expose valuable information about your production environ
ment.
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Utility Servlets
Bundle-SymbolicName: io.dropwizard.metrics.servlets
Bundle-Version: 4.2.23
Created-By: Apache Maven Bundle Plugin 5.1.9
Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metr
ics,com.codahale.metrics.health,com.fasterxml.jackson.databind,javax.
servlet,javax.servlet.http";version="4.2.23"
Implementation-Title: Metrics Utility Servlets
Implementation-Version: 4.2.23
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.2,5)",com
.codahale.metrics.health;version="[4.2,5)",com.codahale.metrics.json;
 version="[4.2,5)",com.codahale.metrics.jvm;version="[4.2,5)",com.fast
erxml.jackson.databind;version="[2.12,3)",com.fasterxml.jackson.datab
ind.util;version="[2.12,3)",com.papertrail.profiler;version="[1.1,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
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1.660 libpcap 1.10.1-4ubuntu1.22.04.1

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1.661 jaraco.collections 5.1.0

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1.662 commons-io 2.17.0

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1.663 protobuf-java 3.25.5

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Found in path(s):
* /protobuf-java-3-25-5-jar/google/protobuf/type.proto
* /protobuf-java-3-25-5-jar/google/protobuf/struct.proto
* /protobuf-java-3-25-5-jar/google/protobuf/timestamp.proto
* /protobuf-java-3-25-5-jar/google/protobuf/api.proto
* /protobuf-java-3-25-5-jar/google/protobuf/empty.proto
*
 /protobuf-java-3-25-5-jar/google/protobuf/source_context.proto
* /protobuf-java-3-25-5-jar/google/protobuf/wrappers.proto
* /protobuf-java-3-25-5-jar/google/protobuf/duration.proto
* /protobuf-java-3-25-5-jar/google/protobuf/field_mask.proto
* /protobuf-java-3-25-5-jar/google/protobuf/any.proto
* /protobuf-java-3-25-5-jar/google/protobuf/descriptor.proto
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Manifest-Version: 1.0
Created-By: mergejars
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1726689439980
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are
a way of encoding structured data in an efficient yet extensible format
.
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.25.5
Export-Package: com.google.protobuf;version="3.25.5",com.google.protobuf
.compiler;version="3.25.5";uses:="com.google.protobuf"
Import-Package: com.google.protobuf;version="[3.25,4)",sun.misc;resoluti
on:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Target-Label: //java/core:lite_runtime_only

Found in path(s):
* /protobuf-java-3-25-5-jar/META-INF/MANIFEST.MF

1.664 jetty-continuation 9.4.56.v20240826

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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1.666 x-time-rate 0.7.0

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1.667 jackson-dataformat-yaml 2.16.1

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1.668 scala 2.13.15

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```
not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `{ case (a, b) => ... }
 val x: ((Int, Int) => Int) = (((a, b)) => a)
                              ^
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the Tuple2,
    or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }
 val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
                                    ^
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
    Either create a single parameter accepting the
 Tuple3,
    or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
 val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
                                    ^
3 errors
```

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice

of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes

2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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History

Before (and including) argparse 1.1, the argparse package was licensed under
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After argparse 1.1, all project files from the argparse project were deleted
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The project repository then had a clean start with some files taken from
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Python was created in the early 1990s by Guido van Rossum at Stichting
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software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
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1.671 pyasn1 0.6.1

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

NOTE:
The package is now maintained by *Christian Heimes* and
Simon Pichugin in project https://github.com/pyasn1/pyasn1.

Features
---

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs

* Can operate on streams of serialized data
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 3.8+
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology.
 Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
```

```
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
         'room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(
        'house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321,
 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions
of 2-clause
BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Name: pyasn1
Version: 0.6.1
Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Home-page: https://github.com/pyasn1/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: pyasn1 maintenance organization
Maintainer-email: Christian Heimes <christian@python.org>
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ASN.1 library for Python

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 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
         'room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
         )
      ),
      DefaultedNamedType(
         'house', Integer(0).subtype(
             implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
         )
      )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1

`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send
 back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room':
 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](https://pyasn1.readthedocs.io/en/latest/pyasn1/contents.html),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/pyasn1/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](https://pyasn1.readthedocs.io/en/latest/license.html). Source code is freely
available as a GitHub [repo](https://github.com/pyasn1/pyasn1).

You could `pip install pyasn1`
 or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/epyasn1/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)

or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/PKG-INFO
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst
No license file was found, but licenses were detected in source scan.

```
[metadata]
name = pyasn1
version = attr: pyasn1.__version__
description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
long_description = file: README.md
long_description_content_type = text/markdown
license = BSD-2-Clause
license_files = LICENSE.rst
url = https://github.com/pyasn1/pyasn1
author = Ilya Etingof
author_email = etingof@gmail.com
maintainer = pyasn1 maintenance organization
maintainer_email = Christian Heimes <christian@python.org>
project_urls =
 Documentation=https://pyasn1.readthedocs.io
 Source=https://github.com/pyasn1/pyasn1
 Issues=https://github.com/pyasn1/pyasn1/issues
 Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html
platforms = any
classifiers =
 Development Status :: 5 - Production/Stable
 Environment :: Console
 Intended Audience :: Developers
 Intended Audience :: Education
 Intended Audience :: Information Technology
 Intended Audience :: System
 Administrators
 Intended Audience :: Telecommunications Industry
 License :: OSI Approved :: BSD License
 Natural Language :: English
 Operating System :: OS Independent
```

```
 Programming Language :: Python :: 3
 Programming Language :: Python :: 3.8
 Programming Language :: Python :: 3.9
 Programming Language :: Python :: 3.10
 Programming Language :: Python :: 3.11
 Programming Language :: Python :: 3.12
 Programming Language :: Python :: 3.13
 Programming Language :: Python :: Implementation :: CPython
 Programming Language :: Python :: Implementation :: PyPy
 Topic :: Communications
 Topic :: Software Development :: Libraries :: Python Modules

[options]
python_requires = >=3.8
zip_safe = True
setup_requires = setuptools
packages =
 pyasn1
 pyasn1.type
 pyasn1.compat
 pyasn1.codec
 pyasn1.codec.ber
 pyasn1.codec.cer
 pyasn1.codec.der
 pyasn1.codec.native

[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.cfg

1.672 fsnotify 1.8.0

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Mateusz Loskot (mloskot)
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nlopess
Ondej Sur
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.675 apr 1.7.0-8ubuntu0.22.04.2

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file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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```
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1.676 pkg-sftp 1.13.7

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1.678 masterminds-semver 3.3.0

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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/InternalThreadLocalMap.java
*
 /netty-common-4-1-105-final-sources-2-jar/io/netty/util/DomainNameMapping.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/FastThreadLocal.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/PromiseAggregator.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/AsciiString.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/ResourceLeakHint.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/IntegerHolder.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/PromiseNotifier.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/NativeLibraryLoader.java

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```

Found in path(s):
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/ObjectCleaner.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/NettyRuntime.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/SuppressForbidden.java
*
 /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/EmptyPriorityQueue.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/LongAdderCounter.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/UncheckedBooleanSupplier.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/PriorityQueue.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/ReflectionUtil.java
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```

Found in path(s):

* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/Cleaner.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/CleanerJava9.java
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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>

 <artifactId>jctools-core</artifactId>
 <groupId>org.jctools</groupId>
 <version>3.1.0</version>
 <name>Java Concurrency Tools Core Library</name>
 <description>Java Concurrency Tools Core Library</description>
 <packaging>bundle</packaging>

 <dependencies>
  <dependency>
   <groupId>org.hamcrest</groupId>
   <artifactId>hamcrest-all</artifactId>
   <version>${hamcrest.version}</version>
   <scope>test</scope>
  </dependency>

  <dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>${junit.version}</version>
   <scope>test</scope>
  </dependency>

  <dependency>
   <groupId>com.google.guava</groupId>
   <artifactId>guava-testlib</artifactId>
   <version>${guava-testlib.version}</version>
   <scope>test</scope>
  </dependency>
 </dependencies>
 <build>
  <plugins>
   <plugin>
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    <artifactId>maven-surefire-plugin</artifactId>
    <version>3.0.0-M3</version>
    <configuration>
     <includes>
      <include>*</include>
     </includes>
```

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  </configuration>
 </plugin>
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  <extensions>true</extensions>
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   <instructions>
    <Import-Package>sun.misc;resolution:=optional</Import-Package>
   </instructions>
  </configuration>
 </plugin>
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    <phase>verify</phase>
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    </goals>
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 </plugin>
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    <additionalOption>-Xdoclint:none</additionalOption>
   </additionalOptions>
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    <goals>
     <goal>jar</goal>
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</plugins>
</build>
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  <name>jctools-jctools</name>
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 </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
 <license>
  <name>Apache
License, Version 2.0</name>
  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/JCTools/JCTools</url>
 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
 <maven>3.5.0</maven>
</prerequisites>
```

```
 <properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
```

Found
 in path(s):
* /netty-common-4-1-105-final-sources-2-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpscChunkedArrayQueue.java
*
 /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
*
 /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java
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* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
*
/netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
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* /netty-common-4-1-105-final-sources-2-
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/netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
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Found in path(s):
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/FastThreadLocalThread.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/CleanerJava6.java
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/ByteProcessorUtils.java
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/JdkLogger.java
*
/netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/CommonsLogger.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/Log4JLogger.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/InternalLogger.java
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/package-info.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/AbstractConstant.java
*
 /netty-common-4-1-105-final-sources-2-jar/io/netty/util/Timeout.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/NetUtil.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/FailedFuture.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/BlockingOperationException.java
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 /netty-common-4-1-105-final-sources-2-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/Timer.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/PlatformDependent.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/SystemPropertyUtil.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/Attribute.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/EventExecutor.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/AttributeMap.java
*
 /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/StringUtil.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/Signal.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/TimerTask.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/HashedWheelTimer.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/AttributeKey.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/Constant.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/EventExecutorGroup.java
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/BooleanSupplier.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/ThrowableUtil.java
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/netty-common-4-1-105-final-sources-2-jar/io/netty/util/DomainNameMappingBuilder.java
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/NativeLibraryUtil.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/Log4J2Logger.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/ResourceLeakTracker.java
*
/netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/ConstantTimeUtils.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/IntSupplier.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/MacAddressUtil.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/SocketUtils.java
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* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/Hidden.java
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/netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/ObjectPool.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/svm/package-info.java
* /netty-common-4-1-105-final-sources-2-jar/io/netty/util/internal/ThreadExecutorMap.java
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1.680 structured-merge-diff 4.4.2

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
```

```
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
```

// deprecated, but still completely functional
SevIgnored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
SevRemoved = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`

}
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Protocol Buffers for Go with Gadgets

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

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1.685 auto-sdk 1.1.0

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package version

// Collection is a type that implements the sort.Interface interface

```
// so that versions can be sorted.
type Collection []*Version

func (v Collection) Len() int {
 return len(v)
}

func (v Collection) Less(i, j int) bool {
 return v[i].LessThan(v[j])
}

func (v Collection) Swap(i, j int) {
 v[i], v[j] = v[j], v[i]
}
```

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```
package version

import (
 "reflect"
 "sort"
 "testing"
)

func TestCollection(t *testing.T) {
 versionsRaw := []string{
  "1.1.1",
  "1.0",
  "1.2",
  "2",
  "0.7.1",
 }

 versions := make([]*Version, len(versionsRaw))
 for i, raw := range versionsRaw {
  v, err := NewVersion(raw)
  if err != nil {
   t.Fatalf("err: %s", err)
  }
```

```
 versions[i] = v
 }

 sort.Sort(Collection(versions))

 actual := make([]string, len(versions))
 for i, v := range versions {
  actual[i] = v.String()
 }

 expected := []string{
  "0.7.1",
  "1.0.0",
  "1.1.1",
  "1.2.0",
  "2.0.0",
 }

 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("bad: %#v", actual)
 }
}
name: go-tests

on: [push]

env:
 TEST_RESULTS: /tmp/test-results

jobs:

 go-tests:
   runs-on: ubuntu-latest
   strategy:
     matrix:
       go-version: [ 1.15.3, 1.19 ]

   steps:
     - name: Setup go
       uses: actions/setup-go@41dfa10bad2bb2ae585af6ee5bb4d7d973ad74ed # v5.1.0
       with:
         go-version: ${{ matrix.go-version }}

     - name: Checkout code
       uses: actions/checkout@11bd71901bbe5b1630ceea73d27597364c9af683 # v4.2.2

     - name: Create test directory
```

```
      run: |
        mkdir -p ${{ env.TEST_RESULTS }}

    - name: Download go modules
      run: go mod download

    - name: Cache / restore go modules
      uses: actions/cache@1bd1e32a3bdc45362d1e726936510720a7c30a57 # v4.2.0
      with:
        path: |
          ~/go/pkg/mod
        key: ${{ runner.os }}-go-${{ hashFiles('**/go.sum') }}
        restore-keys: |
          ${{ runner.os }}-go-

    # Check go fmt output because it does not report
non-zero when there are fmt changes
    - name: Run gofmt
      run: |
        go fmt ./...
        files=$(go fmt ./...)
          if [ -n "$files" ]; then
            echo "The following file(s) do not conform to go fmt:"
            echo "$files"
            exit 1
          fi

    # Install gotestsum with go get for 1.15.3; otherwise default to go install
    - name: Install gotestsum
      run: |
        GTS="gotest.tools/gotestsum@v1.8.2"
        # We use the same error message prefix in either failure case, so just define it once here.
        ERROR="Failed to install $GTS"
        # First try to 'go install', if that fails try 'go get'...
        go install "$GTS" || go get "$GTS" || { echo "$ERROR: both 'go install' and 'go get' failed"; exit 1; }
        # Check that the gotestsum command was actually installed in the path...
        command -v gotestsum > /dev/null 2>&1 || { echo "$ERROR: gotestsum command not installed"; exit
1; }
        echo "OK: Command 'gotestsum' installed ($GTS)"

    - name: Run go tests
      run: |
        PACKAGE_NAMES=$(go list ./...)
        gotestsum --format=short-verbose --junitfile $TEST_RESULTS/gotestsum-report.xml --
$PACKAGE_NAMES

    # Save coverage report parts
    - name: Upload and save artifacts
```

```
uses: actions/upload-artifact@b4b15b8c7c6ac21ea08fcf65892d2ee8f75cf882 # v4.4.3
with:
  name: Test Results
  path: ${{ env.TEST_RESULTS }}
```

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Versioning Library for Go

![Build Status](https://github.com/hashicorp/go-version/actions/workflows/go-tests.yml/badge.svg)
[![GoDoc](https://godoc.org/github.com/hashicorp/go-version?status.svg)](https://godoc.org/github.com/hashicorp/go-version)

go-version is a library for parsing versions and version constraints,
and verifying versions against a set of constraints. go-version
can sort a collection of versions properly, handles prerelease/beta
versions, can increment versions, etc.

Versions used with go-version must follow [SemVer](http://semver.org/).

Installation and Usage

Package documentation can be found on
[GoDoc](http://godoc.org/github.com/hashicorp/go-version).

Installation can be done with a normal `go get`:

```
$ go get github.com/hashicorp/go-version
```

Version Parsing and Comparison

```go
```

```go
v1, err := version.NewVersion("1.2")
v2, err := version.NewVersion("1.5+metadata")

// Comparison example. There is also GreaterThan, Equal, and just
// a simple Compare
 that returns an int allowing easy >=, <=, etc.
if v1.LessThan(v2) {
   fmt.Printf("%s is less than %s", v1, v2)
}
```

Version Constraints

```go
v1, err := version.NewVersion("1.2")

// Constraints example.
constraints, err := version.NewConstraint(">= 1.0, < 1.4")
if constraints.Check(v1) {
 fmt.Printf("%s satisfies constraints %s", v1, constraints)
}
```

Version Sorting

```go
versionsRaw := []string{"1.1", "0.7.1", "1.4-beta", "1.4", "2"}
versions := make([]*version.Version, len(versionsRaw))
for i, raw := range versionsRaw {
   v, _ := version.NewVersion(raw)
   versions[i] = v
}

// After this, the versions are properly sorted
sort.Sort(version.Collection(versions))
```

Issues and Contributing

If you find an issue with this library, please report an issue. If you'd like, we welcome any contributions. Fork this library and submit a pull request.

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```
package version

import (
 "encoding/json"
 "fmt"
 "reflect"
 "testing"
)

func TestNewVersion(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"", true},
  {"1.2.3", false},
  {"1.0", false},
```

```
 {"1", false},
 {"1.2.beta", true},
 {"1.21.beta", true},
 {"foo", true},
 {"1.2-5", false},
 {"1.2-beta.5", false},
 {"\n1.2", true},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"v1.2.3", false},
 {"foo1.2.3", true},
 {"1.7rc2", false},
 {"v1.7rc2", false},
 {"1.0-", false},
}

for _, tc := range cases {
 _, err := NewVersion(tc.version)
 if tc.err && err == nil {
  t.Fatalf("expected error for version:
%q", tc.version)
 } else if !tc.err && err != nil {
  t.Fatalf("error for version %q: %s", tc.version, err)
 }
}
}

func TestNewSemver(t *testing.T) {
cases := []struct {
 version string
 err     bool
}{
 {"", true},
 {"1.2.3", false},
 {"1.0", false},
 {"1", false},
 {"1.2.beta", true},
 {"1.21.beta", true},
 {"foo", true},
 {"1.2-5", false},
 {"1.2-beta.5", false},
```

```
 {"\n1.2", true},
 {"1.2.0-x.Y.0+metadata", false},
 {"1.2.0-x.Y.0+metadata-width-hyphen", false},
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist", false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"v1.2.3", false},
 {"foo1.2.3", true},
 {"1.7rc2", true},
 {"v1.7rc2", true},
 {"1.0-", true},
 }

 for _, tc := range cases {
  _, err := NewSemver(tc.version)
  if tc.err && err == nil {
   t.Fatalf("expected error for version: %q", tc.version)
  } else
 if !tc.err && err != nil {
   t.Fatalf("error for version %q: %s", tc.version, err)
  }
 }
}

func TestCore(t *testing.T) {
 cases := []struct {
  v1 string
  v2 string
 }{
  {"1.2.3", "1.2.3"},
  {"2.3.4-alpha1", "2.3.4"},
  {"3.4.5alpha1", "3.4.5"},
  {"1.2.3-2", "1.2.3"},
  {"4.5.6-beta1+meta", "4.5.6"},
  {"5.6.7.1.2.3", "5.6.7"},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("error for version %q: %s", tc.v1, err)
  }
  v2, err := NewVersion(tc.v2)
  if err != nil {
```

```
  t.Fatalf("error for version %q: %s", tc.v2, err)
 }

 actual := v1.Core()
 expected := v2

 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("expected: %s\nactual: %s", expected, actual)
 }
}
}

func TestVersionCompare(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected int
 }{
  {"1.2.3", "1.4.5", -1},
  {"1.2-beta", "1.2-beta", 0},
  {"1.2", "1.1.4", 1},
  {"1.2", "1.2-beta", 1},
  {"1.2+foo", "1.2+beta", 0},
  {"v1.2", "v1.2-beta",
 1},
  {"v1.2+foo", "v1.2+beta", 0},
  {"v1.2.3.4", "v1.2.3.4", 0},
  {"v1.2.0.0", "v1.2", 0},
  {"v1.2.0.0.1", "v1.2", 1},
  {"v1.2", "v1.2.0.0", 0},
  {"v1.2", "v1.2.0.0.1", -1},
  {"v1.2.0.0", "v1.2.0.0.1", -1},
  {"v1.2.3.0", "v1.2.3.4", -1},
  {"1.7rc2", "1.7rc1", 1},
  {"1.7rc2", "1.7", -1},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", 1},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }
```

```
 actual := v1.Compare(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s <=> %s\nexpected: %d\nactual: %d",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestVersionCompare_versionAndSemver(t *testing.T) {
 cases := []struct {
  versionRaw string
  semverRaw  string
  expected   int
 }{
  {"0.0.2", "0.0.2", 0},
  {"1.0.2alpha", "1.0.2-alpha", 0},
  {"v1.2+foo", "v1.2+beta", 0},
  {"v1.2", "v1.2+meta", 0},
  {"1.2",
"1.2-beta", 1},
  {"v1.2", "v1.2-beta", 1},
  {"1.2.3", "1.4.5", -1},
  {"v1.2", "v1.2.0.0.1", -1},
  {"v1.0.3-", "v1.0.3", -1},
 }

 for _, tc := range cases {
  ver, err := NewVersion(tc.versionRaw)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  semver, err := NewSemver(tc.semverRaw)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := ver.Compare(semver)
  if actual != tc.expected {
   t.Fatalf(
    "%s <=> %s\nexpected: %d\n actual: %d",
    tc.versionRaw, tc.semverRaw, tc.expected, actual,
   )
  }
```

```
 }
}

func TestVersionEqual_nil(t *testing.T) {
 mustVersion := func(v string) *Version {
  ver, err := NewVersion(v)
  if err != nil {
   t.Fatal(err)
  }
  return ver
 }
 cases := []struct {
  leftVersion  *Version
  rightVersion *Version
  expected     bool
 }{
  {mustVersion("1.0.0"), nil, false},
  {nil, mustVersion("1.0.0"), false},
  {nil, nil, true},
 }

 for _, tc := range cases {
  given := tc.leftVersion.Equal(tc.rightVersion)
  if given != tc.expected {
   t.Fatalf("expected
 Equal to nil to be %t", tc.expected)
  }
 }
}

func TestComparePreReleases(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected int
 }{
  {"1.2-beta.2", "1.2-beta.2", 0},
  {"1.2-beta.1", "1.2-beta.2", -1},
  {"1.2-beta.2", "1.2-beta.11", -1},
  {"3.2-alpha.1", "3.2-alpha", 1},
  {"1.2-beta.2", "1.2-beta.1", 1},
  {"1.2-beta.11", "1.2-beta.2", 1},
  {"1.2-beta", "1.2-beta.3", -1},
  {"1.2-alpha", "1.2-beta.3", -1},
  {"1.2-beta", "1.2-alpha.3", 1},
  {"3.0-alpha.3", "3.0-rc.1", -1},
  {"3.0-alpha3", "3.0-rc1", -1},
  {"3.0-alpha.1", "3.0-alpha.beta", -1},
```

```
 {"5.4-alpha", "5.4-alpha.beta", 1},
 {"v1.2-beta.2", "v1.2-beta.2", 0},
 {"v1.2-beta.1", "v1.2-beta.2", -1},
 {"v3.2-alpha.1", "v3.2-alpha", 1},
 {"v3.2-rc.1-1-g123", "v3.2-rc.2", 1},
}

for _, tc := range cases {
 v1, err := NewVersion(tc.v1)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 v2, err := NewVersion(tc.v2)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual
:= v1.Compare(v2)
 expected := tc.expected
 if actual != expected {
  t.Fatalf(
   "%s <=> %s\nexpected: %d\nactual: %d",
   tc.v1, tc.v2,
   expected, actual)
 }
}
}

func TestVersionMetadata(t *testing.T) {
 cases := []struct {
  version  string
  expected string
 }{
  {"1.2.3", ""},
  {"1.2-beta", ""},
  {"1.2.0-x.Y.0", ""},
  {"1.2.0-x.Y.0+metadata", "metadata"},
  {"1.2.0-metadata-1.2.0+metadata~dist", "metadata~dist"},
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }
```

```
  actual := v.Metadata()
  expected := tc.expected
  if actual != expected {
   t.Fatalf("expected: %s\nactual: %s", expected, actual)
  }
 }
}

func TestVersionPrerelease(t *testing.T) {
 cases := []struct {
  version  string
  expected string
 }{
  {"1.2.3", ""},
  {"1.2-beta", "beta"},
  {"1.2.0-x.Y.0", "x.Y.0"},
  {"1.2.0-7.Y.0", "7.Y.0"},
  {"1.2.0-x.Y.0+metadata", "x.Y.0"},
  {"1.2.0-metadata-1.2.0+metadata~dist", "metadata-1.2.0"},
  {"17.03.0-ce",
 "ce"}, // zero-padded fields
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Prerelease()
  expected := tc.expected
  if actual != expected {
   t.Fatalf("expected: %s\nactual: %s", expected, actual)
  }
 }
}

func TestVersionSegments(t *testing.T) {
 cases := []struct {
  version  string
  expected []int
 }{
  {"1.2.3", []int{1, 2, 3}},
  {"1.2-beta", []int{1, 2, 0}},
  {"1-x.Y.0", []int{1, 0, 0}},
  {"1.2.0-x.Y.0+metadata", []int{1, 2, 0}},
  {"1.2.0-metadata-1.2.0+metadata~dist", []int{1, 2, 0}},
  {"17.03.0-ce", []int{17, 3, 0}}, // zero-padded fields
```

```
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Segments()
  expected := tc.expected
  if !reflect.DeepEqual(actual, expected) {
   t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
  }
 }
}

func TestVersionSegments64(t *testing.T) {
 cases
 := []struct {
  version  string
  expected []int64
 }{
  {"1.2.3", []int64{1, 2, 3}},
  {"1.2-beta", []int64{1, 2, 0}},
  {"1-x.Y.0", []int64{1, 0, 0}},
  {"1.2.0-x.Y.0+metadata", []int64{1, 2, 0}},
  {"1.4.9223372036854775807", []int64{1, 4, 9223372036854775807}},
 }

 for _, tc := range cases {
  v, err := NewVersion(tc.version)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v.Segments64()
  expected := tc.expected
  if !reflect.DeepEqual(actual, expected) {
   t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
  }

  {
   expected := actual[0]
   actual[0]++
   actual = v.Segments64()
   if actual[0] != expected {
    t.Fatalf("Segments64 is mutable")
   }
```

```
  }
 }
}

func TestJsonMarshal(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"1.2.3", false},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
  {"1.2.3-rc1-with-hyphen", false},
  {"1.2.3.4", false},
  {"1.2.0.4-x.Y.0+metadata", false},
  {"1.2.0.4-x.Y.0+metadata-width-hyphen",
 false},
  {"1.2.0-X-1.2.0+metadata~dist", false},
  {"1.2.3.4-rc1-with-hyphen", false},
  {"1.2.3.4", false},
 }

 for _, tc := range cases {
  v, err1 := NewVersion(tc.version)
  if err1 != nil {
   t.Fatalf("error for version %q: %s", tc.version, err1)
  }

  parsed, err2 := json.Marshal(v)
  if err2 != nil {
   t.Fatalf("error marshaling version %q: %s", tc.version, err2)
  }
  result := string(parsed)
  expected := fmt.Sprintf("%q", tc.version)
  if result != expected && !tc.err {
   t.Fatalf("Error marshaling unexpected marshaled content: result=%q expected=%q", result, expected)
  }
 }
}

func TestJsonUnmarshal(t *testing.T) {
 cases := []struct {
  version string
  err     bool
 }{
  {"1.2.3", false},
  {"1.2.0-x.Y.0+metadata", false},
  {"1.2.0-x.Y.0+metadata-width-hyphen", false},
```

```
 {"1.2.3-rc1-with-hyphen", false},
 {"1.2.3.4", false},
 {"1.2.0.4-x.Y.0+metadata", false},
 {"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
 {"1.2.0-X-1.2.0+metadata~dist",
false},
 {"1.2.3.4-rc1-with-hyphen", false},
 {"1.2.3.4", false},
}

for _, tc := range cases {
 expected, err1 := NewVersion(tc.version)
 if err1 != nil {
  t.Fatalf("err: %s", err1)
 }

 actual := &Version{}
 err2 := json.Unmarshal([]byte(fmt.Sprintf("%q", tc.version)), actual)
 if err2 != nil {
  t.Fatalf("error unmarshaling version: %s", err2)
 }
 if !reflect.DeepEqual(actual, expected) {
  t.Fatalf("error unmarshaling, unexpected object content: actual=%q expected=%q", actual, expected)
 }
}
}

func TestVersionString(t *testing.T) {
cases := [][]string{
 {"1.2.3", "1.2.3"},
 {"1.2-beta", "1.2.0-beta"},
 {"1.2.0-x.Y.0", "1.2.0-x.Y.0"},
 {"1.2.0-x.Y.0+metadata", "1.2.0-x.Y.0+metadata"},
 {"1.2.0-metadata-1.2.0+metadata~dist", "1.2.0-metadata-1.2.0+metadata~dist"},
 {"17.03.0-ce", "17.3.0-ce"}, // zero-padded fields
}

for _, tc := range cases {
 v, err := NewVersion(tc[0])
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := v.String()
 expected
:= tc[1]
 if actual != expected {
  t.Fatalf("expected: %s\nactual: %s", expected, actual)
```

```
  }
  if actual := v.Original(); actual != tc[0] {
   t.Fatalf("expected original: %q\nactual: %q", tc[0], actual)
  }
 }
}

func TestEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err:
%s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.Equal(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
```

```
    "%s <=> %s\nexpected: %t\nactual: %t",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}

func TestGreaterThan(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", false},
  {"1.2", "1.1.4", true},
  {"1.2", "1.2-beta", true},
  {"1.2+foo", "1.2+beta", false},
  {"v1.2", "v1.2-beta", true},
  {"v1.2+foo", "v1.2+beta", false},
  {"v1.2.3.4", "v1.2.3.4", false},
  {"v1.2.0.0", "v1.2", false},
  {"v1.2.0.0.1", "v1.2", true},
  {"v1.2", "v1.2.0.0", false},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", true},
  {"1.7rc2", "1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
  v1,
 err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.GreaterThan(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
```

```
   "%s > %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
  }
 }
}

func TestLessThan(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", true},
  {"1.2-beta", "1.2-beta", false},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", false},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", false},
  {"v1.2.3.4", "v1.2.3.4", false},
  {"v1.2.0.0", "v1.2", false},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", false},
  {"v1.2", "v1.2.0.0.1", true},
  {"v1.2.0.0", "v1.2.0.0.1", true},
  {"v1.2.3.0", "v1.2.3.4", true},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", true},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist",
 false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.LessThan(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
```

```
    "%s < %s\nexpected: %t\nactual: %t",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}

func TestGreaterThanOrEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", false},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", true},
  {"1.2", "1.2-beta", true},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", true},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", true},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", false},
  {"v1.2.0.0", "v1.2.0.0.1", false},
  {"v1.2.3.0", "v1.2.3.4", false},
  {"1.7rc2", "1.7rc1", true},
  {"1.7rc2",
"1.7", false},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.GreaterThanOrEqual(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
```

```
   "%s >= %s\nexpected: %t\nactual: %t",
   tc.v1, tc.v2,
   expected, actual)
  }
 }
}

func TestLessThanOrEqual(t *testing.T) {
 cases := []struct {
  v1       string
  v2       string
  expected bool
 }{
  {"1.2.3", "1.4.5", true},
  {"1.2-beta", "1.2-beta", true},
  {"1.2", "1.1.4", false},
  {"1.2", "1.2-beta", false},
  {"1.2+foo", "1.2+beta", true},
  {"v1.2", "v1.2-beta", false},
  {"v1.2+foo", "v1.2+beta", true},
  {"v1.2.3.4", "v1.2.3.4", true},
  {"v1.2.0.0", "v1.2", true},
  {"v1.2.0.0.1", "v1.2", false},
  {"v1.2", "v1.2.0.0", true},
  {"v1.2", "v1.2.0.0.1", true},
  {"v1.2.0.0", "v1.2.0.0.1", true},
  {"v1.2.3.0",
 "v1.2.3.4", true},
  {"1.7rc2", "1.7rc1", false},
  {"1.7rc2", "1.7", true},
  {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
 }

 for _, tc := range cases {
  v1, err := NewVersion(tc.v1)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  v2, err := NewVersion(tc.v2)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  actual := v1.LessThanOrEqual(v2)
  expected := tc.expected
  if actual != expected {
   t.Fatalf(
```

```
    "%s <= %s\nexpected: %t\nactual: %t",
    tc.v1, tc.v2,
    expected, actual)
  }
 }
}
```

Data model artifacts for Prometheus.
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1.7.0 (May 24, 2024)

ENHANCEMENTS:

- Remove `reflect` dependency ([#91](https://github.com/hashicorp/go-version/pull/91))
- Implement the `database/sql.Scanner` and `database/sql/driver.Value` interfaces for `Version`
([#133](https://github.com/hashicorp/go-version/pull/133))

INTERNAL:

- [COMPLIANCE] Add Copyright and License Headers ([#115](https://github.com/hashicorp/go-version/pull/115))
- [COMPLIANCE] Update MPL-2.0 LICENSE ([#105](https://github.com/hashicorp/go-version/pull/105))
- Bump actions/cache from 3.0.11 to 3.2.5 ([#116](https://github.com/hashicorp/go-version/pull/116))
- Bump actions/checkout from 3.2.0 to 3.3.0 ([#111](https://github.com/hashicorp/go-version/pull/111))
- Bump actions/upload-artifact from 3.1.1 to 3.1.2 ([#112](https://github.com/hashicorp/go-version/pull/112))
- GHA Migration ([#103](https://github.com/hashicorp/go-version/pull/103))
- github: Pin external GitHub Actions to hashes ([#107](https://github.com/hashicorp/go-version/pull/107))
- SEC-090:
Automated trusted workflow pinning (2023-04-05) ([#124](https://github.com/hashicorp/go-version/pull/124))
- update readme ([#104](https://github.com/hashicorp/go-version/pull/104))

1.6.0 (June 28, 2022)

FEATURES:

- Add `Prerelease` function to `Constraint` to return true if the version includes a prerelease field
([#100](https://github.com/hashicorp/go-version/pull/100))

1.5.0 (May 18, 2022)

FEATURES:

- Use `encoding` `TextMarshaler` & `TextUnmarshaler` instead of JSON equivalents ([#95](https://github.com/hashicorp/go-version/pull/95))
- Add JSON handlers to allow parsing from/to JSON ([#93](https://github.com/hashicorp/go-version/pull/93))

1.4.0 (January 5, 2022)

FEATURES:

- Introduce `MustConstraints()` ([#87](https://github.com/hashicorp/go-version/pull/87))
- `Constraints`: Introduce `Equals()` and `sort.Interface` methods ([#88](https://github.com/hashicorp/go-version/pull/88))

1.3.0 (March 31, 2021)

Please note that CHANGELOG.md does not exist in the source
code prior to this release.

FEATURES:
- Add `Core` function to return a version without prerelease or metadata ([#85](https://github.com/hashicorp/go-version/pull/85))

1.2.1 (June 17, 2020)

BUG FIXES:
- Prevent `Version.Equal` method from panicking on `nil` encounter ([#73](https://github.com/hashicorp/go-version/pull/73))

1.2.0 (April 23, 2019)

FEATURES:
- Add `GreaterThanOrEqual` and `LessThanOrEqual` helper methods ([#53](https://github.com/hashicorp/go-version/pull/53))

1.1.0 (Jan 07, 2019)

FEATURES:
- Add `NewSemver` constructor ([#45](https://github.com/hashicorp/go-version/pull/45))

1.0.0 (August 24, 2018)

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

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```
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package version

import (
 "fmt"
 "regexp"
 "sort"
 "strings"
```

```
)

// Constraint represents a single constraint for a version, such as
// ">= 1.0".
type Constraint struct {
 f        constraintFunc
 op       operator
 check    *Version
 original string
}

func (c *Constraint) Equals(con *Constraint) bool {
 return c.op == con.op && c.check.Equal(con.check)
}

// Constraints is a slice of constraints. We make a custom type so that
// we can add methods to it.
type Constraints []*Constraint

type constraintFunc func(v, c *Version) bool

var constraintOperators map[string]constraintOperation

type constraintOperation struct {
 op operator
 f  constraintFunc
}

var constraintRegexp *regexp.Regexp

func init() {
 constraintOperators = map[string]constraintOperation{
  "":   {op: equal, f: constraintEqual},
  "=":  {op: equal, f: constraintEqual},
  "!=": {op: notEqual, f: constraintNotEqual},
  ">":  {op: greaterThan, f: constraintGreaterThan},
  "<":
  {op: lessThan, f: constraintLessThan},
  ">=": {op: greaterThanEqual, f: constraintGreaterThanEqual},
  "<=": {op: lessThanEqual, f: constraintLessThanEqual},
  "~>": {op: pessimistic, f: constraintPessimistic},
 }

 ops := make([]string, 0, len(constraintOperators))
 for k := range constraintOperators {
  ops = append(ops, regexp.QuoteMeta(k))
 }
```

```
 constraintRegexp = regexp.MustCompile(fmt.Sprintf(
  `^\s*(%s)\s*(%s)\s*$`,
  strings.Join(ops, "|"),
  VersionRegexpRaw))
}

// NewConstraint will parse one or more constraints from the given
// constraint string. The string must be a comma-separated list of
// constraints.
func NewConstraint(v string) (Constraints, error) {
 vs := strings.Split(v, ",")
 result := make([]*Constraint, len(vs))
 for i, single := range vs {
  c, err := parseSingle(single)
  if err != nil {
   return nil, err
  }

  result[i] = c
 }

 return Constraints(result), nil
}

// MustConstraints is a helper that wraps a call to a function
//
 returning (Constraints, error) and panics if error is non-nil.
func MustConstraints(c Constraints, err error) Constraints {
 if err != nil {
  panic(err)
 }

 return c
}

// Check tests if a version satisfies all the constraints.
func (cs Constraints) Check(v *Version) bool {
 for _, c := range cs {
  if !c.Check(v) {
   return false
  }
 }

 return true
}

// Equals compares Constraints with other Constraints
// for equality. This may not represent logical equivalence
```

```
// of compared constraints.
// e.g. even though '>0.1,>0.2' is logically equivalent
// to '>0.2' it is *NOT* treated as equal.
//
// Missing operator is treated as equal to '=', whitespaces
// are ignored and constraints are sorted before comaparison.
func (cs Constraints) Equals(c Constraints) bool {
 if len(cs) != len(c) {
  return false
 }

 // make copies to retain order of the original slices
 left := make(Constraints, len(cs))
 copy(left, cs)
 sort.Stable(left)
 right := make(Constraints, len(c))
 copy(right, c)
 sort.Stable(right)

 //
 compare sorted slices
 for i, con := range left {
  if !con.Equals(right[i]) {
   return false
  }
 }

 return true
}

func (cs Constraints) Len() int {
 return len(cs)
}

func (cs Constraints) Less(i, j int) bool {
 if cs[i].op < cs[j].op {
  return true
 }
 if cs[i].op > cs[j].op {
  return false
 }

 return cs[i].check.LessThan(cs[j].check)
}

func (cs Constraints) Swap(i, j int) {
 cs[i], cs[j] = cs[j], cs[i]
}
```

```
// Returns the string format of the constraints
func (cs Constraints) String() string {
 csStr := make([]string, len(cs))
 for i, c := range cs {
  csStr[i] = c.String()
 }

 return strings.Join(csStr, ",")
}

// Check tests if a constraint is validated by the given version.
func (c *Constraint) Check(v *Version) bool {
 return c.f(v, c.check)
}

// Prerelease returns true if the version underlying this constraint
// contains a prerelease field.
func (c *Constraint) Prerelease() bool {
 return len(c.check.Prerelease()) > 0
}

func (c *Constraint) String()
 string {
 return c.original
}

func parseSingle(v string) (*Constraint, error) {
 matches := constraintRegexp.FindStringSubmatch(v)
 if matches == nil {
  return nil, fmt.Errorf("Malformed constraint: %s", v)
 }

 check, err := NewVersion(matches[2])
 if err != nil {
  return nil, err
 }

 cop := constraintOperators[matches[1]]

 return &Constraint{
  f:       cop.f,
  op:      cop.op,
  check:   check,
  original: v,
 }, nil
}
```

```
func prereleaseCheck(v, c *Version) bool {
 switch vPre, cPre := v.Prerelease() != "", c.Prerelease() != ""; {
 case cPre && vPre:
  // A constraint with a pre-release can only match a pre-release version
  // with the same base segments.
  return v.equalSegments(c)

 case !cPre && vPre:
  // A constraint without a pre-release can only match a version without a
  // pre-release.
  return false

 case cPre && !vPre:
  // OK, except with the pessimistic operator
 case !cPre && !vPre:
  // OK
 }
 return true
}

//-----------------------------------------------------------------
//
 Constraint functions
//-----------------------------------------------------------------

type operator rune

const (
 equal            operator = '='
 notEqual         operator = ''
 greaterThan      operator = '>'
 lessThan         operator = '<'
 greaterThanEqual operator = ''
 lessThanEqual    operator = ''
 pessimistic      operator = '~'
)

func constraintEqual(v, c *Version) bool {
 return v.Equal(c)
}

func constraintNotEqual(v, c *Version) bool {
 return !v.Equal(c)
}

func constraintGreaterThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == 1
}
```

```
func constraintLessThan(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) == -1
}

func constraintGreaterThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) >= 0
}

func constraintLessThanEqual(v, c *Version) bool {
 return prereleaseCheck(v, c) && v.Compare(c) <= 0
}

func constraintPessimistic(v, c *Version) bool {
 // Using a pessimistic
 constraint with a pre-release, restricts versions to pre-releases
 if !prereleaseCheck(v, c) || (c.Prerelease() != "" && v.Prerelease() == "") {
  return false
 }

 // If the version being checked is naturally less than the constraint, then there
 // is no way for the version to be valid against the constraint
 if v.LessThan(c) {
  return false
 }
 // We'll use this more than once, so grab the length now so it's a little cleaner
 // to write the later checks
 cs := len(c.segments)

 // If the version being checked has less specificity than the constraint, then there
 // is no way for the version to be valid against the constraint
 if cs > len(v.segments) {
  return false
 }

 // Check the segments in the constraint against those in the version. If the version
 // being checked, at any point, does not have the same values in each index of the
 // constraints segments, then it cannot be valid against the constraint.
 for i := 0; i < c.si-1; i++ {
  if v.segments[i] != c.segments[i]
 {
   return false
  }
 }

 // Check the last part of the segment in the constraint. If the version segment at
 // this index is less than the constraints segment at this index, then it cannot
 // be valid against the constraint
```

```
 if c.segments[cs-1] > v.segments[cs-1] {
  return false
 }

 // If nothing has rejected the version by now, it's valid
 return true
}
version: 2
updates:
 - package-ecosystem: "gomod"
   directory: "/"
   schedule:
     interval: "daily"
   labels: ["dependencies"]

 - package-ecosystem: github-actions
   directory: /
   schedule:
     interval: monthly
   labels:
     - dependencies
   # only update HashiCorp actions, external actions managed by TSCCR
   allow:
     - dependency-name: hashicorp/*
   groups:
     github-actions-breaking:
       update-types:
         - major
     github-actions-backward-compatible:
       update-types:
         - minor
         - patch
```

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module github.com/hashicorp/go-version
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```
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package version

import (
 "fmt"
 "reflect"
 "sort"
 "testing"
)

func TestNewConstraint(t *testing.T) {
 cases := []struct {
```

```
 input string
 count int
 err   bool
}{
 {">= 1.2", 1, false},
 {"1.0", 1, false},
 {">= 1.x", 0, true},
 {">= 1.2, < 1.0", 2, false},

 // Out of bounds
 {"113877787807814456755295000000000000000000", 0, true},
}

for _, tc := range cases {
 v, err := NewConstraint(tc.input)
 if tc.err && err == nil {
  t.Fatalf("expected error for input: %s", tc.input)
 } else if !tc.err && err != nil {
  t.Fatalf("error for input %s: %s", tc.input, err)
 }

 if len(v) != tc.count {
  t.Fatalf("input: %s\nexpected len: %d\nactual: %d",
   tc.input, tc.count, len(v))
 }
}
}

func TestConstraintCheck(t *testing.T) {
 cases := []struct {
  constraint string
  version    string
  check      bool
 }{
  {">= 1.0, < 1.2", "1.1.5", true},
  {"< 1.0, < 1.2", "1.1.5", false},
  {"= 1.0", "1.1.5",
 false},
  {"= 1.0", "1.0.0", true},
  {"1.0", "1.0.0", true},
  {"~> 1.0", "2.0", false},
  {"~> 1.0", "1.1", true},
  {"~> 1.0", "1.2.3", true},
  {"~> 1.0.0", "1.2.3", false},
  {"~> 1.0.0", "1.0.7", true},
  {"~> 1.0.0", "1.1.0", false},
  {"~> 1.0.7", "1.0.4", false},
  {"~> 1.0.7", "1.0.7", true},
```

```
 {"~> 1.0.7", "1.0.8", true},
 {"~> 1.0.7", "1.0.7.5", true},
 {"~> 1.0.7", "1.0.6.99", false},
 {"~> 1.0.7", "1.0.8.0", true},
 {"~> 1.0.9.5", "1.0.9.5", true},
 {"~> 1.0.9.5", "1.0.9.4", false},
 {"~> 1.0.9.5", "1.0.9.6", true},
 {"~> 1.0.9.5", "1.0.9.5.0", true},
 {"~> 1.0.9.5", "1.0.9.5.1", true},
 {"~> 2.0", "2.1.0-beta", false},
 {"~> 2.1.0-a", "2.2.0", false},
 {"~> 2.1.0-a", "2.1.0", false},
 {"~> 2.1.0-a", "2.1.0-beta", true},
 {"~> 2.1.0-a", "2.2.0-alpha", false},
 {"> 2.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.0-beta", true},
 {">= 2.1.0-a", "2.1.1-beta", false},
 {">= 2.0.0", "2.1.0-beta", false},
 {">= 2.1.0-a", "2.1.1", true},
 {">= 2.1.0-a", "2.1.1-beta",
false},
 {">= 2.1.0-a", "2.1.0", true},
 {"<= 2.1.0-a", "2.0.0", true},
}

for _, tc := range cases {
 c, err := NewConstraint(tc.constraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 v, err := NewVersion(tc.version)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := c.Check(v)
 expected := tc.check
 if actual != expected {
  t.Fatalf("Version: %s\nConstraint: %s\nExpected: %#v",
   tc.version, tc.constraint, expected)
 }
}
}

func TestConstraintPrerelease(t *testing.T) {
 cases := []struct {
  constraint string
```

```
 prerelease bool
}{
 {"= 1.0", false},
 {"= 1.0-beta", true},
 {"~> 2.1.0", false},
 {"~> 2.1.0-dev", true},
 {"> 2.0", false},
 {">= 2.1.0-a", true},
}

for _, tc := range cases {
 c, err := parseSingle(tc.constraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := c.Prerelease()
 expected := tc.prerelease
 if actual != expected {
  t.Fatalf("Constraint: %s\nExpected: %#v",
   tc.constraint, expected)
 }
}
}

func
 TestConstraintEqual(t *testing.T) {
 cases := []struct {
  leftConstraint  string
  rightConstraint string
  expectedEqual   bool
 }{
  {
   "0.0.1",
   "0.0.1",
   true,
  },
  { // whitespaces
   " 0.0.1 ",
   "0.0.1",
   true,
  },
  { // equal op implied
   "=0.0.1 ",
   "0.0.1",
   true,
  },
  { // version difference
```

```
  "=0.0.1",
  "=0.0.2",
  false,
 },
 { // operator difference
  ">0.0.1",
  "=0.0.1",
  false,
 },
 { // different order
  ">0.1.0, <=1.0.0",
  "<=1.0.0, >0.1.0",
  true,
 },
}

for _, tc := range cases {
 leftCon, err := NewConstraint(tc.leftConstraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }
 rightCon, err := NewConstraint(tc.rightConstraint)
 if err != nil {
  t.Fatalf("err: %s", err)
 }

 actual := leftCon.Equals(rightCon)
 if actual != tc.expectedEqual {
  t.Fatalf("Constraints: %s vs %s\nExpected: %t\nActual: %t",
   tc.leftConstraint, tc.rightConstraint, tc.expectedEqual, actual)
 }
}
}

func TestConstraint_sort(t
 *testing.T) {
 cases := []struct {
  constraint          string
  expectedConstraints string
 }{
  {
   ">= 0.1.0,< 1.12",
   "< 1.12,>= 0.1.0",
  },
  {
   "< 1.12,>= 0.1.0",
   "< 1.12,>= 0.1.0",
  },
```

```
 {
  "< 1.12,>= 0.1.0,0.2.0",
  "< 1.12,0.2.0,>= 0.1.0",
 },
 {
  ">1.0,>0.1.0,>0.3.0,>0.2.0",
  ">0.1.0,>0.2.0,>0.3.0,>1.0",
 },
}

for i, tc := range cases {
 t.Run(fmt.Sprintf("%d", i), func(t *testing.T) {
  c, err := NewConstraint(tc.constraint)
  if err != nil {
   t.Fatalf("err: %s", err)
  }

  sort.Sort(c)

  actual := c.String()

  if !reflect.DeepEqual(actual, tc.expectedConstraints) {
   t.Fatalf("unexpected order\nexpected: %#v\nactual: %#v",
    tc.expectedConstraints, actual)
  }
 })
}
}

func TestConstraintsString(t *testing.T) {
 cases := []struct {
  constraint string
  result     string
 }{
  {">= 1.0, < 1.2", ""},
  {"~> 1.0.7", ""},
 }

 for _, tc := range cases {
  c, err := NewConstraint(tc.constraint)
  if err != nil {
   t.Fatalf("err:
%s", err)
  }

  actual := c.String()
  expected := tc.result
  if expected == "" {
```

```
  expected = tc.constraint
 }

 if actual != expected {
  t.Fatalf("Constraint: %s\nExpected: %#v\nActual: %s",
   tc.constraint, expected, actual)
 }
}
}
```

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package version

import (
 "bytes"
 "database/sql/driver"
 "fmt"
 "regexp"

```
 "strconv"
 "strings"
)

// The compiled regular expression used to test the validity of a version.
var (
 versionRegexp *regexp.Regexp
 semverRegexp  *regexp.Regexp
)

// The raw regular expression string used for testing the validity
// of a version.
const (
 VersionRegexpRaw string = `v?([0-9]+(\.[0-9]+)*?)` +
  `(-([0-9]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)|(-?([A-Za-z\-~]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)))?` +
  `(\+([0-9A-Za-z\-~]+(\.[0-9A-Za-z\-~]+)*))?` +
  `?`

 // SemverRegexpRaw requires a separator between version and prerelease
 SemverRegexpRaw string = `v?([0-9]+(\.[0-9]+)*?)` +
  `(-([0-9]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)|(-([A-Za-z\-~]+[0-9A-Za-z\-~]*(\.[0-9A-Za-z\-~]+)*)))?` +
  `(\+([0-9A-Za-z\-~]+(\.[0-9A-Za-z\-~]+)*))?` +
  `?`
)

// Version represents a single version.
type Version struct {
 metadata string
 pre
   string
 segments []int64
 si       int
 original string
}

func init() {
 versionRegexp = regexp.MustCompile("^" + VersionRegexpRaw + "$")
 semverRegexp = regexp.MustCompile("^" + SemverRegexpRaw + "$")
}

// NewVersion parses the given version and returns a new
// Version.
func NewVersion(v string) (*Version, error) {
 return newVersion(v, versionRegexp)
}

// NewSemver parses the given version and returns a new
// Version that adheres strictly to SemVer specs
```

```
// https://semver.org/
func NewSemver(v string) (*Version, error) {
 return newVersion(v, semverRegexp)
}

func newVersion(v string, pattern *regexp.Regexp) (*Version, error) {
 matches := pattern.FindStringSubmatch(v)
 if matches == nil {
  return nil, fmt.Errorf("Malformed version: %s", v)
 }
 segmentsStr := strings.Split(matches[1], ".")
 segments := make([]int64, len(segmentsStr))
 for i, str := range segmentsStr {
  val, err := strconv.ParseInt(str, 10, 64)
  if err != nil {
   return nil, fmt.Errorf(
    "Error parsing version:
 %s", err)
  }

  segments[i] = val
 }

 // Even though we could support more than three segments, if we
 // got less than three, pad it with 0s. This is to cover the basic
 // default usecase of semver, which is MAJOR.MINOR.PATCH at the minimum
 for i := len(segments); i < 3; i++ {
  segments = append(segments, 0)
 }

 pre := matches[7]
 if pre == "" {
  pre = matches[4]
 }

 return &Version{
  metadata: matches[10],
  pre:      pre,
  segments: segments,
  si:       len(segmentsStr),
  original: v,
 }, nil
}

// Must is a helper that wraps a call to a function returning (*Version, error)
// and panics if error is non-nil.
func Must(v *Version, err error) *Version {
 if err != nil {
```

```
 panic(err)
 }

 return v
}

// Compare compares this version to another version. This
// returns -1, 0, or 1 if this version is smaller, equal,
// or larger than the other version, respectively.
//
// If you want boolean results, use the LessThan, Equal,
// GreaterThan, GreaterThanOrEqual or LessThanOrEqual
 methods.
func (v *Version) Compare(other *Version) int {
 // A quick, efficient equality check
 if v.String() == other.String() {
  return 0
 }

 // If the segments are the same, we must compare on prerelease info
 if v.equalSegments(other) {
  preSelf := v.Prerelease()
  preOther := other.Prerelease()
  if preSelf == "" && preOther == "" {
   return 0
  }
  if preSelf == "" {
   return 1
  }
  if preOther == "" {
   return -1
  }

  return comparePrereleases(preSelf, preOther)
 }

 segmentsSelf := v.Segments64()
 segmentsOther := other.Segments64()
 // Get the highest specificity (hS), or if they're equal, just use segmentSelf length
 lenSelf := len(segmentsSelf)
 lenOther := len(segmentsOther)
 hS := lenSelf
 if lenSelf < lenOther {
  hS = lenOther
 }
 // Compare the segments
 // Because a constraint could have more/less specificity than the version it's
 // checking, we need to account for a lopsided or jagged comparison
```

```
 for i := 0; i < hS; i++ {
  if i > lenSelf-1 {
   //
 This means Self had the lower specificity
   // Check to see if the remaining segments in Other are all zeros
   if !allZero(segmentsOther[i:]) {
    // if not, it means that Other has to be greater than Self
    return -1
   }
   break
  } else if i > lenOther-1 {
   // this means Other had the lower specificity
   // Check to see if the remaining segments in Self are all zeros -
   if !allZero(segmentsSelf[i:]) {
    // if not, it means that Self has to be greater than Other
    return 1
   }
   break
  }
  lhs := segmentsSelf[i]
  rhs := segmentsOther[i]
  if lhs == rhs {
   continue
  } else if lhs < rhs {
   return -1
  }
  // Otherwis, rhs was > lhs, they're not equal
  return 1
 }

 // if we got this far, they're equal
 return 0
}

func (v *Version) equalSegments(other *Version) bool {
 segmentsSelf := v.Segments64()
 segmentsOther := other.Segments64()

 if len(segmentsSelf) != len(segmentsOther) {
  return false
 }
 for i, v := range segmentsSelf {
  if v != segmentsOther[i]
  {
   return false
  }
 }
 return true
```

```
}

func allZero(segs []int64) bool {
 for _, s := range segs {
  if s != 0 {
   return false
  }
 }
 return true
}

func comparePart(preSelf string, preOther string) int {
 if preSelf == preOther {
  return 0
 }

 var selfInt int64
 selfNumeric := true
 selfInt, err := strconv.ParseInt(preSelf, 10, 64)
 if err != nil {
  selfNumeric = false
 }

 var otherInt int64
 otherNumeric := true
 otherInt, err = strconv.ParseInt(preOther, 10, 64)
 if err != nil {
  otherNumeric = false
 }

 // if a part is empty, we use the other to decide
 if preSelf == "" {
  if otherNumeric {
   return -1
  }
  return 1
 }

 if preOther == "" {
  if selfNumeric {
   return 1
  }
  return -1
 }

 if selfNumeric && !otherNumeric {
  return -1
 } else if !selfNumeric && otherNumeric {
```

```
 return 1
 } else if !selfNumeric && !otherNumeric && preSelf > preOther {
  return 1
 } else if selfInt > otherInt {
  return 1
 }

 return -1
}

func comparePrereleases(v string, other string)
 int {
 // the same pre release!
 if v == other {
  return 0
 }

 // split both pre releases for analyse their parts
 selfPreReleaseMeta := strings.Split(v, ".")
 otherPreReleaseMeta := strings.Split(other, ".")

 selfPreReleaseLen := len(selfPreReleaseMeta)
 otherPreReleaseLen := len(otherPreReleaseMeta)

 biggestLen := otherPreReleaseLen
 if selfPreReleaseLen > otherPreReleaseLen {
  biggestLen = selfPreReleaseLen
 }

 // loop for parts to find the first difference
 for i := 0; i < biggestLen; i = i + 1 {
  partSelfPre := ""
  if i < selfPreReleaseLen {
   partSelfPre = selfPreReleaseMeta[i]
  }

  partOtherPre := ""
  if i < otherPreReleaseLen {
   partOtherPre = otherPreReleaseMeta[i]
  }

  compare := comparePart(partSelfPre, partOtherPre)
  // if parts are equals, continue the loop
  if compare != 0 {
   return compare
  }
 }
```

```
 return 0
}

// Core returns a new version constructed from only the MAJOR.MINOR.PATCH
// segments of the version, without prerelease or metadata.
func
 (v *Version) Core() *Version {
 segments := v.Segments64()
 segmentsOnly := fmt.Sprintf("%d.%d.%d", segments[0], segments[1], segments[2])
 return Must(NewVersion(segmentsOnly))
}

// Equal tests if two versions are equal.
func (v *Version) Equal(o *Version) bool {
 if v == nil || o == nil {
  return v == o
 }

 return v.Compare(o) == 0
}

// GreaterThan tests if this version is greater than another version.
func (v *Version) GreaterThan(o *Version) bool {
 return v.Compare(o) > 0
}

// GreaterThanOrEqual tests if this version is greater than or equal to another version.
func (v *Version) GreaterThanOrEqual(o *Version) bool {
 return v.Compare(o) >= 0
}

// LessThan tests if this version is less than another version.
func (v *Version) LessThan(o *Version) bool {
 return v.Compare(o) < 0
}

// LessThanOrEqual tests if this version is less than or equal to another version.
func (v *Version) LessThanOrEqual(o *Version) bool {
 return v.Compare(o) <= 0
}

// Metadata returns any metadata
 that was part of the version
// string.
//
// Metadata is anything that comes after the "+" in the version.
// For example, with "1.2.3+beta", the metadata is "beta".
func (v *Version) Metadata() string {
```

```
 return v.metadata
}

// Prerelease returns any prerelease data that is part of the version,
// or blank if there is no prerelease data.
//
// Prerelease information is anything that comes after the "-" in the
// version (but before any metadata). For example, with "1.2.3-beta",
// the prerelease information is "beta".
func (v *Version) Prerelease() string {
 return v.pre
}

// Segments returns the numeric segments of the version as a slice of ints.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments() []int {
 segmentSlice := make([]int, len(v.segments))
 for i, v := range v.segments {
  segmentSlice[i] = int(v)
 }
 return segmentSlice
}

// Segments64 returns the
 numeric segments of the version as a slice of int64s.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments64() []int64 {
 result := make([]int64, len(v.segments))
 copy(result, v.segments)
 return result
}

// String returns the full version string included pre-release
// and metadata information.
//
// This value is rebuilt according to the parsed segments and other
// information. Therefore, ambiguities in the version string such as
// prefixed zeroes (1.04.0 => 1.4.0), `v` prefix (v1.0.0 => 1.0.0), and
// missing parts (1.0 => 1.0.0) will be made into a canonicalized form
// as shown in the parenthesized examples.
func (v *Version) String() string {
 var buf bytes.Buffer
```

```
 fmtParts := make([]string, len(v.segments))
 for i, s := range v.segments {
  // We can ignore err here since we've pre-parsed the values in segments
  str := strconv.FormatInt(s, 10)
  fmtParts[i]
 = str
 }
 fmt.Fprintf(&buf, strings.Join(fmtParts, "."))
 if v.pre != "" {
  fmt.Fprintf(&buf, "-%s", v.pre)
 }
 if v.metadata != "" {
  fmt.Fprintf(&buf, "+%s", v.metadata)
 }

 return buf.String()
}

// Original returns the original parsed version as-is, including any
// potential whitespace, `v` prefix, etc.
func (v *Version) Original() string {
 return v.original
}

// UnmarshalText implements encoding.TextUnmarshaler interface.
func (v *Version) UnmarshalText(b []byte) error {
 temp, err := NewVersion(string(b))
 if err != nil {
  return err
 }

 *v = *temp

 return nil
}

// MarshalText implements encoding.TextMarshaler interface.
func (v *Version) MarshalText() ([]byte, error) {
 return []byte(v.String()), nil
}

// Scan implements the sql.Scanner interface.
func (v *Version) Scan(src interface{}) error {
 switch src := src.(type) {
 case string:
  return v.UnmarshalText([]byte(src))
 case nil:
  return nil
```

```
 default:
  return fmt.Errorf("cannot scan %T as Version", src)
 }
}

//
 Value implements the driver.Valuer interface.
func (v *Version) Value() (driver.Value, error) {
 return v.String(), nil
}
```

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1.704 contrib-instrumentation-net-http-otelhttp 0.53.0

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1.707 kubernetes-yaml 1.2.0

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1.720 rich 13.9.4

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1.721 multierr 1.11.0

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1.722 zap-exp 1.27.0

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1.724 cachecontrol 0.12.6

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1.725 ldap 2.5.1

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jar/io/netty/channel/unix/DatagramSocketAddress.java
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jar/io/netty/channel/unix/DomainSocketChannelConfig.java
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jar/io/netty/channel/unix/DomainSocketChannel.java

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```

Found in path(s):
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/UnixChannelUtil.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/netty_unix_jni.h
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* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/Limits.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/netty_unix_limits.c
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/netty_unix_limits.h
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/netty_unix_util.c
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/PeerCredentials.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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* /netty-transport-native-unix-common-4-1-105-final-sources-2-

jar/io/netty/channel/unix/GenericUnixChannelOption.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-
jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-
jar/io/netty/channel/unix/RawUnixChannelOption.java
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* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/Unix.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/package-info.java
* /netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/UnixChannelOption.java
*
/netty-transport-native-unix-common-4-1-105-final-sources-2-jar/io/netty/channel/unix/IovArray.java

1.730 dropwizard-health 2.1.11

1.730.1 Available under license :

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1.731 go-grpc-middleware 1.4.0

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1.733 python 3.10.6-1~22.04.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.734 drop-wizard-metrics 2.1.11

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1.735 collector 0.18.0

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1.736 zap-exp 1.17.0

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1.737 netty-handler 4.1.105.Final

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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkSslServerContext.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java

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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslEngine.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
*
/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/PemReader.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
*
/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ipfilter/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkSslContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/CipherSuiteConverter.java
*
/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslServerContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkSslEngine.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
*
/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionContext.java

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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
*
 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/flush/package-info.java
*
 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/PemX509Certificate.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/PemEncoded.java
*

/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/DelegatingSslContext.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/logging/LoggingHandler.java
*

/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/IdleStateEvent.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/logging/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/TimeoutException.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/logging/LogLevel.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
*
/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/IdleStateHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/stream/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/stream/ChunkedNioStream.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/address/ResolveAddressHandler.java
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/netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/logging/ByteBufFormat.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
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 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslContextBuilder.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/pcap/package-info.java

*
 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/pcap/UDPPacket.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/pcap/TCPPacket.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/AbstractSniHandler.java
*
 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/Conscrypt.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslClientHelloHandler.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
*
 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/address/package-info.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/traffic/package-info.java
*
 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
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 /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/Ciphers.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/AsyncRunnable.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/SslContextOption.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /netty-handler-4-1-105-final-sources-2-jar/io/netty/handler/ssl/GroupsConverter.java

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1.746 packaging 23.1

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*/
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
 Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/base64/Base64Dialect.java

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*/
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Found in path(s):
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/EmptyHeaders.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/Headers.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DefaultHeaders.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
```

```
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
```

```
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
```

```
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                    AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
```

```
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Crc32c.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/CompressionUtil.java
*
 /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/string/LineEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DateFormatter.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/EncoderUtil.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
*
/netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
*
/netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-105-final-sources-2-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
*
/netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/json/package-info.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
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* <p>
 * The encoding and decoding algorithm in this class has been derived from
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
*
 /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/protobuf/package-info.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/string/package-info.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/base64/Base64Decoder.java
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*
 /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DecoderResult.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
*
 /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/ZlibUtil.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/package-info.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
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* /netty-codec-4-1-105-final-sources-2-jar/io/netty/handler/codec/compression/CompressionException.java
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1.753 golang-glog 1.1.2

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* /camel-ldap-3-4-6-sources-jar/org/apache/camel/component/ldap/LdapEndpoint.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/DuplexChannelConfig.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ExtendedClosedChannelException.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
*
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:
*
* {@link
 ChannelInboundHandler} to handle inbound I/O events, and
* {@link ChannelOutboundHandler} to handle outbound I/O operations.
*
*
*
* Alternatively, the following adapter classes are provided for your convenience:

```
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
```

```
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
```

```
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/

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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/SimpleUserEventChannelHandler.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/SelectStrategyFactory.java
*
 /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelInboundInvoker.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/SelectStrategy.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelOutboundInvoker.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelOutboundHandler.java

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/netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/EventLoopException.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/CompleteChannelFuture.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
*
/netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/EventLoop.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/nio/NioTask.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/SocketChannel.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/oio/AbstractOioChannel.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/AbstractChannel.java
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/netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/DatagramPacket.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelHandlerContext.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/nio/AbstractNioByteChannel.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/nio/package-info.java
*
 /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/SocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/oio/AbstractOioByteChannel.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/AbstractServerChannel.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/group/CombinedIterator.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/local/package-info.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelPromiseAggregator.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/oio/package-info.java
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/netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/CombinedChannelDuplexHandler.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
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/netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/pool/ChannelPoolHandler.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/pool/ChannelPoolMap.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/ChannelProgressivePromise.java
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jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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 /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/DefaultMessageSizeEstimator.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/AbstractEventLoop.java
* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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 /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/bootstrap/FailedChannel.java
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* /netty-transport-4-1-105-final-sources-2-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
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module _ // Auto generated by https://github.com/bwplotka/bingo. DO NOT EDIT

go 1.16

require github.com/efficientgo/tools/copyright v0.0.0-20210326193628-425a09c04e05

1.767 dropwizard-metrics-graphite 2.1.11

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1.773 go-grpc-middleware 1.2.0

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1.774 amqp-client 5.20.0

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Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/en-US/M
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Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.20.0
Bnd-LastModified: 1698243701289
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Vendor: VMware, Inc. or its affiliates.
Import-Package: com.codahale.metrics;version="[4.2,5)";resolution:=opt
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Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
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20.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.20.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /amqp-client-5-20-0-3-jar/META-INF/MANIFEST.MF
```

1.775 jose4j 0.9.4

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Found in path(s):
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/DecryptionJwkSelector.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/SimpleJwkFilter.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/SelectorSupport.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/InvalidKeyException.java

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* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunctionFactory.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/kdf/KdfUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunction.java
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* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/Validator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/ContentEncryptionParts.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/http/SimpleGet.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/Use.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwx/Headers.java
*
 /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/OctJwkGenerator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/MalformedClaimException.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/NumericDateValidator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/ContentEncryptionAlgorithm.java

* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/X509Util.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/EllipticCurveJsonWebKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/JsonWebKeySet.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/CipherUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/InitializationVectorHelp.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/AesGcmContentEncryptionAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/KeyPairUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/base64url/Base64Url.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/IntegrityException.java
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* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/EcKeyUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/AesKeyWrapManagementAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwx/KeyValidationSupport.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwa/AlgorithmFactoryFactory.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/SimpleAeadCipher.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/GeneralJwtException.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/base64url/SimplePEMEncoder.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/JsonWebKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/json/JsonHeaderUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/JwtClaims.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/JsonHelp.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwx/HeaderParameterNames.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/EcdhKeyAgreementWithAesKeyWrapAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/JtiValidator.java
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/jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/PbkdfKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/ErrorCodeValidatorAdapter.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/UnresolvableKeyException.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/UnsecuredNoneAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwx/JsonWebStructure.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwa/AlgorithmAvailability.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/JsonWebEncryption.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/ContentEncryptionKeys.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/ByteUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/RsaKeyUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/IntDate.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/JwsCustomizer.java
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/jose4j-0-9-4-sources-3-jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/EllipticCurves.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/IssValidator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/BaseSignatureAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java

* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/WrappingKeyManagementAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/resolvers/X509VerificationKeyResolver.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/json/JsonUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/InvalidAlgorithmException.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/DirectKeyManagementAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/HmacKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwa/AlgorithmInfo.java
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* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwx/CompactSerializer.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/PublicJsonWebKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/resolvers/VerificationKeyResolver.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/EcJwkGenerator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jca/ProviderContext.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/AesKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/BigEndianBigInteger.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/EcdsaUsingShaAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java
*
/jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/ErrorCodeValidator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/HashUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwa/Algorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/KeyManagementAlgorithmIdentifiers.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/RsaJwkGenerator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/UncheckedJoseException.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/RsaUsingShaAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/ErrorCodes.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/keys/KeyPersuasion.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/RsaKeyManagementAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/ReservedClaimNames.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/DefaultByteGenerator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/zip/CompressionAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/NumericDate.java
*
/jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/JwtContext.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/ContentEncryptionKeyDescriptor.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/StringUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/InvalidJwtException.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwa/AlgorithmConstraints.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/ExceptionHelp.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/SubValidator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/VerificationJwkSelector.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/BouncyCastleProviderHelp.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/KeyManagementAlgorithm.java

* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/RsaJsonWebKey.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/zip/DeflateRFC1951CompressionAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/ByteGenerator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwk/KeyOperations.java
*
 /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/http/Get.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/AlgorithmIdentifiers.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwx/CompactSerialization.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/lang/JoseException.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/HmacUsingShaAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/JweCustomizer.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/mac/MacUtil.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwe/ContentEncryptionHelp.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/JwtConsumer.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/JsonWebSignatureAlgorithm.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jws/JsonWebSignature.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/jwt/consumer/AudValidator.java
* /jose4j-0-9-4-sources-3-jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java
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* /jose4j-0-9-4-sources-3-jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java

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1.785 genproto-googleapis-rpc 0.0.0-20230920204549-e6e6cdab5c13

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1.786 genproto-googleapis-rpc 0.0.0-20240415180920-8c6c420018be

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1.787 vtprotobuf 0.6.0

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1.788 zipkin-go-opentracing 0.5.0

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1.789 netty-transport-classes-epoll 4.1.105.Final

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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
    * for more details.
    */
```

Found in path(s):
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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* /netty-transport-classes-epoll-4-1-105-final-sources-2-
jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
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```
*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
```

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* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollEventArray.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/TcpMd5Util.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollMode.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

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* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollChannelOption.java
*
 /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollEventLoop.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/Epoll.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /netty-transport-classes-epoll-4-1-105-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollChannel.java
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1.798 otel-sdk 1.20.0

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1.808 go-http-auth 0.4.0

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1.809 packaging 21.2

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1.810 bbolt 1.3.11

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1.811 distlib 0.3.3

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes

2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.815 tenacity 8.2.2

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1.816 go-validator-validator 2.0.1

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1.817 swag 0.23.0

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1.818 more-itertools 9.1.0

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1.819 simpleclient_servlet_common 0.16.0

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Found in path(s):
* /simpleclient-servlet-common-0-16-0-sources-1-jar/META-
INF/maven/io.prometheus/simpleclient_servlet_common/pom.xml

1.820 error_prone_annotations 2.23.0

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Manifest-Version: 1.0
Created-By: Maven JAR Plugin 3.2.2
Build-Jdk-Spec: 17
Automatic-Module-Name: com.google.errorprone.annotations
Bundle-Description: Error Prone is a static analysis tool for Java that
catches common programming mistakes at compile-time.
Bundle-DocURL: https://errorprone.info/error_prone_annotations
Bundle-License: "Apache 2.0";link="http://www.apache.org/licenses/LICENS
E-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: error-prone annotations
Bundle-SCM: url="https://github.com/google/error-prone/error_prone_annot

ations",connection="scm:git:https://github.com/google/error-prone.git/e
rror_prone_annotations",developer-connection="scm:git:git@github.com:go
ogle/error-prone.git/error_prone_annotations",tag=HEAD
Bundle-SymbolicName: com.google.errorprone.annotations
Bundle-Vendor: Google LLC
Bundle-Version: 2.23.0
Export-Package: com.google.errorprone.annotations;uses:="javax.lang.mode
l.element";version="2.23.0",com.google.errorprone.annotations.concurren
 t;version="2.23.0"
Import-Package: javax.lang.model.element
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):
* /error-prone-annotations-2-23-0-4-jar/META-INF/MANIFEST.MF
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* /error-prone-annotations-2-23-0-4-jar/META-
INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.821 kubernetes-utils 0.0.0-20241104100929-3ea5e8cea738

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1.823 spdystream 0.5.0

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1.824 json-path 0.0.0-20210407135951-1de76d718b3f

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1.825 httpcache 0.0.0-20190611155906-901d90724c79

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1.826 jetty-security 9.4.56.v20240826

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

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

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

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* java.sun.security.ssl

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

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

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 org.apache.tomcat:tomcat-jasper-el
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2
licensed.

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.828 plexus-utils 3.5.1

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1.830 jetty-util 9.4.56.v20240826

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

Apache

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

MortBay

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

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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1.831 python-pam 2.0.2

1.831.1 Available under license :

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1.832 jetty-util-ajax 9.4.56.v20240826

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.833 asn1-ber 1.5.7

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1.836 vtprotobuf 0.6.1-0.20240319094008-0393e58bdf10

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1.837 containerd 1.7.24

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

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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1.843 genproto-googleapis-rpc 0.0.0-20241015192408-796eee8c2d53

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1.844 pyyaml 6.0

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1.845 gorilla-schema 1.4.1

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1.846 json 0.0.0-20241014173422-cfa47c3a1cc8

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1.847 xml-commons-resolver 1.1

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
```

```
 s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

// License information for the exposed API.

```
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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

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==========
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1.850 x-time-rate 0.9.0

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1.851 genproto-googleapis-rpc 0.0.0-20240826202546-f6391c0de4c7

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1.852 distlib 0.3.4

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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distlib has started off using some of the code from distutil2.

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1.864 azure-sdk-for-go-sdk-azcore 1.10.0

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
```

```
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
```

```
  beginDelete:                 newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                 newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                          *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                  *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                  *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
```

```
 resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
```

```
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginCreateOrUpdate = &respr
 l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
 l.beginCreateOrUpdate.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginCreateOrUpdate) {
 l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
if l.srv.BeginDelete
== nil {
 return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
}
beginDelete := l.beginDelete.get(req)
if beginDelete == nil {
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
```

```
 if
respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
if l.srv.Get == nil {
 return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
}
const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
regex
:= regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
 return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
if err != nil {
 return nil, err
}
licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
if err != nil {
 return nil, err
}
respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
```

```
 return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
```

```
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
```

```
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
```

```
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
```

```
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
```

```
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
```

```
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
```

```
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
```

```
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2023-06-20-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
```

```
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
```

```
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
```

```
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
```

```
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2023-06-20-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2023-06-20-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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// +build go1.18

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package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
```

```
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
 Location: to.Ptr("eastus2euap"),
 Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors: to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err !=
nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
```

```
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
```

```
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

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specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
```

```
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

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manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
```

```
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

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manager/Microsoft.HybridCompute/preview/2023-06-20-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
```

```
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
```

```
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/bf204aab860f2eb58a9d346b00d44760f2a9b0a2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2023-06-20-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
```

```
//    Properties: &armhybridcompute.LicenseProperties{
//     LicenseDetails: &armhybridcompute.LicenseDetails{
//      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//      AssignedLicenses: to.Ptr[int32](8),
//      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//      ImmutableID: to.Ptr("<generated Guid>"),
//      Processors: to.Ptr[int32](6),
//      State: to.Ptr(armhybridcompute.LicenseStateActivated),
//      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//
    },
//     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//     TenantID: to.Ptr("{tenandId}"),
//    },
//  }},
// }
 }
}
```

1.865 etcd-etcdctl v3.5.15

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*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406973 - [compiler] Parse MethodParameters attribute
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*	bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*	bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*	Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*	Stephan Herrmann - Contribution for
*	bug 401030 - [1.8][null] Null analysis support for lambda methods.
*	Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*	Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*	Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*	Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*	Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*	Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*	Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*	Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*	Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
*	Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
*	Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*	Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
*	Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
*	Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*	Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type
 variables
*	Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*	Bug 455723 - Nonnull argument not correctly inferred in loop
*	Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* Stephan Herrmann - Contributions for
* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

```
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java
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*    Frits Jalvingh  - fix for bug 533830.
*******************************************************************************/
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```

* Contributors:
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 328281 - visibility leaks not detected when analyzing unused field in private class
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java
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* Contributors:
* wharley@bea.com - initial API and implementation
*
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BaseAnnotationProcessorManager.java
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*
* Contributors:
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
**********/

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java

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*     Stephan Herrmann - Contribution for
*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 *******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java
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*
* Contributors:
*     IBM Corporation - initial API and implementation
*     Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*     Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete
suggestions
*     Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/CharOperation.java
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* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
***/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EmptyStatement.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
* Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
***/

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.java
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* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource
leak warnings
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 424710
- [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional

expression
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive
 code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AllocationExpression.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CombinedBinaryExpression.java
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBound.java
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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationInfo.java
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug
 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* Bug 407191 - [1.8] Binary access support for type annotations
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```
*     Stephan Herrmann - Contributions for
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 265744 - Enum switch should warn about missing default
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*       Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added the following constants
*          NonStaticAccessToStaticField
*          NonStaticAccessToStaticMethod
*          Task
*          ExpressionShouldBeAVariable
*          AssignmentHasNoEffect
*     IBM Corporation - added the following constants
*          TooManySyntheticArgumentSlots
*          TooManyArrayDimensions
*          TooManyBytesForStringConstant
*          TooManyMethods
*          TooManyFields
 *          NonBlankFinalLocalAssignment
*          ObjectCannotHaveSuperTypes
*          MissingSemiColon
*          InvalidParenthesizedExpression
*          EnclosingInstanceInConstructorCall
*          BytecodeExceeds64KLimitForConstructor
*          IncompatibleReturnTypeForNonInheritedInterfaceMethod
```

```
*       UnusedPrivateMethod
*       UnusedPrivateConstructor
*       UnusedPrivateType
*       UnusedPrivateField
*       IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*       InvalidExplicitConstructorCall
*   IBM Corporation - added the following constants
*       PossibleAccidentalBooleanAssignment
*       SuperfluousSemicolon
*       IndirectAccessToStaticField
*       IndirectAccessToStaticMethod
*       IndirectAccessToStaticType
*       BooleanMethodThrowingException
*       UnnecessaryCast
*       UnnecessaryArgumentCast
*       UnnecessaryInstanceof
*
  FinallyMustCompleteNormally
*       UnusedMethodDeclaredThrownException
*       UnusedConstructorDeclaredThrownException
*       InvalidCatchBlockSequence
*       UnqualifiedFieldAccess
*   IBM Corporation - added the following constants
*       Javadoc
*       JavadocUnexpectedTag
*       JavadocMissingParamTag
*       JavadocMissingParamName
*       JavadocDuplicateParamName
*       JavadocInvalidParamName
*       JavadocMissingReturnTag
*       JavadocDuplicateReturnTag
*       JavadocMissingThrowsTag
*       JavadocMissingThrowsClassName
*       JavadocInvalidThrowsClass
*       JavadocDuplicateThrowsClassName
*       JavadocInvalidThrowsClassName
*       JavadocMissingSeeReference
*       JavadocInvalidSeeReference
*       JavadocInvalidSeeHref
*       JavadocInvalidSeeArgs
*       JavadocMissing
*       JavadocInvalidTag
*       JavadocMessagePrefix
 *       EmptyControlFlowStatement
*   IBM Corporation - added the following constants
*       IllegalUsageOfQualifiedTypeReference
*       InvalidDigit
*   IBM Corporation - added the following constants
```

```
*        ParameterAssignment
*        FallthroughCase
*    IBM Corporation - added the following constants
*                        UnusedLabel
*                        UnnecessaryNLSTag
*                        LocalVariableMayBeNull
*                        EnumConstantsCannotBeSurroundedByParenthesis
*                        JavadocMissingIdentifier
*                        JavadocNonStaticTypeFromStaticInvocation
*                        RawTypeReference
*                        NoAdditionalBoundAfterTypeVariable
*                        UnsafeGenericArrayForVarargs
*                        IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                        InvalidEncoding
*                        CannotReadSource
*                        EnumStaticFieldInInInitializerContext
*                        ExternalProblemNotFixable
*                        ExternalProblemFixable
*    IBM Corporation - added the following constants
*                        AnnotationValueMustBeAnEnumConstant
*                        OverridingMethodWithoutSuperInvocation
*                        MethodMustOverrideOrImplement
*                        TypeHidingTypeParameterFromType
*                        TypeHidingTypeParameterFromMethod
*                        TypeHidingType
*    IBM Corporation - added the following constants
*        NullLocalVariableReference
*        PotentialNullLocalVariableReference
*        RedundantNullCheckOnNullLocalVariable
*         NullLocalVariableComparisonYieldsFalse
 *         RedundantLocalVariableNullAssignment
*         NullLocalVariableInstanceofYieldsFalse
*         RedundantNullCheckOnNonNullLocalVariable
*         NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                        InvalidUsageOfTypeParametersForAnnotationDeclaration
*                        InvalidUsageOfTypeParametersForEnumDeclaration
*    IBM Corporation - added the following constants
*        RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*       MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*       UnusedObjectAllocation
*       PotentiallyUnclosedCloseable
*       PotentiallyUnclosedCloseableAtExit
*       UnclosedCloseable
```

* UnclosedCloseableAtExit
* ExplicitlyClosedAutoCloseable
* RequiredNonNullButProvidedNull
* RequiredNonNullButProvidedPotentialNull
* RequiredNonNullButProvidedUnknown
* NullAnnotationNameMustBeQualified
* IllegalReturnNullityRedefinition
* IllegalRedefinitionToNonNullParameter
* IllegalDefinitionToNonNullParameter
* ParameterLackingNonNullAnnotation
* ParameterLackingNullableAnnotation
* PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness
* RedundantNullAnnotation
* RedundantNullDefaultAnnotation
* RedundantNullDefaultAnnotationPackage
* RedundantNullDefaultAnnotationType
* RedundantNullDefaultAnnotationMethod
* ContradictoryNullAnnotations
* IllegalAnnotationForBaseType
* RedundantNullCheckOnSpecdNonNullLocalVariable
* SpecdNonNullLocalVariableComparisonYieldsFalse
* RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
* MissingEnumConstantCaseDespiteDefault
* UninitializedLocalVariableHintMissingDefault
* UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
* IllegalModifierForInterfaceDefaultMethod
* InheritedDefaultMethodConflictsWithOtherInherited
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* ArrayReferencePotentialNullReference
* DereferencingNullableExpression
* NullityMismatchingTypeAnnotation
* NullityMismatchingTypeAnnotationSuperHint
* NullityUncheckedTypeAnnotationDetail
* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression

* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable
* ImplicitObjectBoundNoNullDefault
* IllegalParameterNullityRedefinition
* ContradictoryNullAnnotationsInferredFunctionType
* IllegalReturnNullityRedefinitionFreeTypeVariable
* UnlikelyCollectionMethodArgumentType
* UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
* TargetTypeNotAFunctionalInterface
* OuterLocalMustBeEffectivelyFinal
* IllegalModifiersForPackage
* DuplicateAnnotationNotMarkedRepeatable
* DisallowedTargetForContainerAnnotation
* RepeatedAnnotationWithContainerAnnotation
* ContainingAnnotationMustHaveValue
* ContainingAnnotationHasNonDefaultMembers
* ContainingAnnotationHasWrongValueType
* ContainingAnnotationHasShorterRetention
* RepeatableAnnotationHasTargets
* RepeatableAnnotationTargetMismatch
* RepeatableAnnotationIsDocumented
* RepeatableAnnotationIsInherited
* RepeatableAnnotationWithRepeatingContainerAnnotation
* VarLocalMultipleDeclarators
* VarLocalCannotBeArray

```
*       VarLocalReferencesItself
*       VarLocalWithoutInitizalier
*       VarLocalInitializedToNull
*       VarLocalCannotBeArrayInitalizers
*       VarLocalCannotBeLambda
*       VarLocalCannotBeMethodReference
*       VarIsReserved
*       VarIsReservedInFuture
*       VarIsNotAllowedHere
*******************************************************************************/
```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/IProblem.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/JrtFileSystem.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
*   Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
***/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java
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* Contributors:
*   Stephan Herrmann - initial API and implementation
*   Till Brychcy - Contributions for
*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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* Contributors:
* Igor Fedorenko - extracted from ElementsImpl
**********/

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* Bug 378674 - "The method can be declared as static" is wrong
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*     Stephan Herrmann - Contribution for
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java
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*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
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```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* bug 407191 - [1.8] Binary access support for type annotations
* Stephan Herrmann - Contribution for

*	Bug 440474 - [null] textual encoding of external null annotations
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*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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*   IBM Corporation - fix for 342470
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeParameterElementImpl.java
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*       Bug 186342 - [compiler][null] Using annotations for null checking
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation
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*******************************************************************************/
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*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*******************************************************************************/
```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
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* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 415790

- [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
**********/

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* Stephan Herrmann - Contribution for
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler]
Enable reflected parameter names during annotation processing
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* Contributors:
* wharley@bea.com - derived base class from BatchMessagerImpl
*
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*   Stephan Herrmann - Contributions for
*   bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*   Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type
 annotations after bug 392099
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* IBM Corporation - fix for 342936
* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Frits Jalvingh - fix for bug 533830.
**********/

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* Stephan Herrmann - Contributions for
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
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* IBM Corporation - fix for 342598
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
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*     Stephan Herrmann - contributions for
*          bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*          bug 186342 - [compiler][null] Using annotations for null checking
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*   Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding
 with try-catch
*   Jesper S Moller <jesper@selskabet.org> - Contributions for

* bug 378674 - "The method can be declared as static" is wrong
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java
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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
* het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
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* bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
* bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
* bug 383690 - [compiler] location of error re uninitialized final field should be aligned
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
* bug 386692 - Missing "unused" warning on "autowired" fields
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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
* bug 292478 - Report potentially null across variable assignment
* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
* bug 354554 - [null] conditional with redundant condition

yields weak error message
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contribution for
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388954 - [1.8][compiler] detect default methods in class files
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
* bug 390883 - [1.8][compiler] Unable to override default method
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
* bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
* bug 409473 - [compiler] JDT cannot compile against JRE 1.8
* Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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* Stephan Herrmann - initial API and implementation
* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for

```
*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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*    Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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*   bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null]
 distinguish warnings based on flow analysis vs. null annotations
*   bug 385626 - @NonNull fails across loop boundaries
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 376263 - Bogus "Potential null pointer access" warning
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   bug 406384 - Internal error with I20130413
*   Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of
LoopingFlowContext and FinallyFlowContext
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 421035 - [resource]

False alarm of resource leak warning when casting a closeable in its assignment
*   Jesper S Moller - contributions for
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
**********/

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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
**********/

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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
 * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

```
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
*     Jesper S Møller  - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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*     Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
```

```
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 437072 - [compiler][null] Null analysis emits
 possibly incorrect warning for new int[][] despite @NonNullByDefault
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*     Till Brychcy - Contributions for
*             bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
*******************************************************************************/
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*       bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416181 - [1.8][compiler][null] Invalid assignment
 is not rejected by the compiler
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434600 - Incorrect null analysis error reporting on type parameters
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 367203 - [compiler][null] detect assigning null to nonnull argument
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

*	Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize
 declaration style null annotations
*	Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**********/

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*	Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*	Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
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*     Stephan Herrmann - Contributions for
*       bug 292478 - Report potentially null across variable assignment
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field
 references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
```

```
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 426996 - [1.8][inference]
 try to avoid method Expression.unresolve()?
*       Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
*******************************************************************************/
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*    tyeung@bea.com - initial API and implementation
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*          Bug 407191 - [1.8] Binary access support for type annotations
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 387612 - Unreachable catch block...exception is never thrown from the try
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 401456 - Code compiles from javac/intellij, but fails from eclipse
* bug 401271 - StackOverflowError
when searching for a methods references
* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter
* Bug 413958 - Function override returning inherited Generic Type
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler]
Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug
427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
* Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
class
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference

*	Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*	Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*	Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
*	Jesper S Moller - Contributions for
*	Bug 378674 - "The method can be declared as static" is wrong
*	Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*	Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*	Bug 559618 - No compiler warning for import from same package
*	Bug 560630 - No warning on unused import on class from same package
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*	bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*	bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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*   philippe.marschall@netcetera.ch - Fix for 338370
*   IBM Corporation - Fix for validating relative name
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*     Stephan Herrmann  - Contributions for
*         bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*         bug 295551 - Add option to automatically promote all warnings to errors
*         bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug
```

370639 - [compiler][resource] restore the default for resource leak warnings
*	bug 366063 - Compiler should not add synthetic @NonNull annotations
*	bug 374605 - Unreasonable warning for enum-based switch statements
*	bug 388281 - [compiler][null] inheritance of null annotations as an option
*	bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*	Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper Steen Moller - Contributions for
*	bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*	bug 407297 - [1.8][compiler] Control generation of parameter names by option
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*	bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*	Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*	Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
**********/

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* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
expressions
* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for

```
*       bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427438
 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*       Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 438945 - [1.8] NullPointerException
 InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references

```
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 359721 - [options] add command line option
 for new warning token "resource"
* bug 365208 - [compiler][batch] command line options for annotation based null analysis
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
* Jesper S Moller - Contributions for

*   bug 407297 - [1.8][compiler] Control generation of parameter names by option
*   Mat Booth - Contribution for bug 405176
*   Frits Jalvingh -
 fix for bug 533830.
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Jesper S Moller - Contributions for

*	Bug 378674 - "The method can be declared as static" is wrong
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
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*	Bug 440474 - [null] textual encoding of external null annotations
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* Contributors:
* IBM Corporation - initial API and implementation
* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)

* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 379784 - [compiler] "Method can be static" is not getting reported
* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null
analysis for field references
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 417295 - [1.8[[null] Massage type annotated null analysis
to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler]
NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference

*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*	Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*	Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*	Bug 470958 - [1.8] Unable to convert lambda
*	Bug 410218 - Optional warning
 for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper S Moller - Contributions for
*	Bug 378674 - "The method can be declared as static" is wrong
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*	Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
**********/

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*	Stephan Herrmann - Contribution for
*	bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*	bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*	Jesper S Moller <jesper@selskabet.org> - Contributions for
*	bug 378674 - "The method can be declared as static" is wrong
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated
 null analysis to gel well with deep encoded type bindings.
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
**********/

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* Contributors:
* tyeung@bea.com - initial API and implementation
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java
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* Contributors:
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* Stephan Herrmann - Contribution for
* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
* bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
* Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
* Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java

* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
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* Contributors:
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* Stephan Herrmann - Contribution for
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

```
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                       bug 529556 - [18.3] Add content assist support for 'var' as a type
*
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 388795 - [compiler] detection of name clash depends on order of super interfaces
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
* bug 390883 - [1.8][compiler] Unable to override default method
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
* bug 409473 - [compiler] JDT cannot compile against JRE 1.8
* Bug 420080 - [1.8] Overridden Default method is reported as duplicated
* Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
* Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
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*       Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 364890 - BinaryTypeBinding should use char constants from Util
*         bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 388800 - [1.8][compiler] detect default methods in class files
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*         Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*         Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*         Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*         Bug 454182 - Internal compiler error when using
 1.8 compliance for simple project
*         Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*         Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
*    Jesper Steen Moller - Contributions for
*         Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*    Sebastian Zarnekow - Contributions for
*         bug 544921 - [performance] Poor performance with large source files
*    Alexander Lehmann - Contributions for
*         bug 566258 - Intermittent NPE in APT RoundDispatcher
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* Stephan Herrmann - Contribution for
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug
415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 -
[1.8][null] Bogus warning for type argument annotated with @NonNull
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
***/

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* Stephan Herrmann - Contribution for
* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 -
[1.8][compiler][codegen] Implement support for serializeable lambdas
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations
after bug 392099
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
* Andy Clement (GoPivotal,

Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
* Bug 419209 - [1.8] Repeating container annotations
should be rejected in the presence of annotation it contains
**********/

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* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 378674 - "The method can be declared as static" is wrong
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
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*       bug 332637 - Dead Code detection removing code that isn't dead
*       bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 447088 - [null] @Nullable on fully qualified field type is ignored
* Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
* Till Brychcy - Contribution for
* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 370930 - NonNull annotation not considered for enhanced for loops
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*     Jesper S Moller -  Contribution for
*       bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*                          bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
  Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*     Jesper S Moller - Bug 392671
*         NPE with a method with explicit this and a following incomplete parameter
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*    IBM Corporation - Fix for bug 328575
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*        bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*    Stephan Herrmann - Contribution for
*        bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
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*        bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*        bug 401030 - [1.8][null] Null analysis support for lambda methods.
```

*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/CompilationResult.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java
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*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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*    tyeung@bea.com - initial API and implementation
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*      Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*       bug 317046 - Exception during debugging when hover mouse over a field
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
```

```
 *       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Erling Ellingsen -  patch for bug 125570
*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*       Bug 544921 - [performance] Poor performance with large source files
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 in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* Bug 328281 - visibility leaks not detected when analyzing unused field in private class
* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
* Bug 354536 - compiling package-info.java still depends on the order of compilation units
* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug
358903 - Filter practically unimportant resource leak warnings
* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
Contributions for
* Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
**********/

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*    Walter Harley - initial API and implementation
*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java

* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 385626 - @NonNull fails across
 loop boundaries
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Jesper S Moller - Contributions for
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

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*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 425783 - An
 internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                       Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
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*       bug 331649 - [compiler][null] consider null annotations for fields
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 458396 - NPE in CodeStream.invoke()
*******************************************************************************/
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*       Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the
method
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
```

bug 407191 - [1.8] Binary access support for type annotations
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java
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* Stephan Herrmann - Contribution for
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
**********/

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* bug 332637 - Dead Code detection removing code that isn't dead
* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 358903 - Filter practically unimportant resource
 leak warnings
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

```
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*       bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*       bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*       bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*       Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*     Jesper Steen Moller -
 Contributions for
*       bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*
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*     Stephan Herrmann - Contributions for
*       bug 335093 - [compiler][null] minimal hook for future null annotation support
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*       bug 370930 - NonNull annotation not considered for enhanced for loops
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
```

```
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*       Andy Clement - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*                       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************/
```

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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 292478 - Report potentially null across variable assignment
*       bug 335093 - [compiler][null] minimal hook for future null annotation support
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
 *       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
```

```
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*       Bug 529556 - [18.3] Add content assist support for 'var' as a type
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*       Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
*******************************************************************************/
```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LocalDeclaration.java
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*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*******************************************************************************/
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources

*	bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*	bug 383368 - [compiler][null] syntactic null analysis for field references
*	bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IfStatement.java
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*	Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*	Stephan Herrmann - Contribution for
*	Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
**********/

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 path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java
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*	Stephan Herrmann - Contribution for

```
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*******************************************************************************/
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*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************/
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 292478 - Report potentially null across variable assignment,
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*       Bug 458396 - NPE in CodeStream.invoke()
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
```

```
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*          bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*       bug 378674 - "The method can be declared as static" is wrong
*       bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                    Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                    Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                    Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                    Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*                    Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                    Bug 434556 - Broken class file generated for incorrect annotation usage
*                    Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
*******************************************************************************/
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

```
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       bug 382069 - [null] Make
```

the null analysis consider JUnit's assertNotNull similarly to assertions
*	Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*	Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*	Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*	Jesper S Moller - Contributions for
*	Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*	Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*	bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*	Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*	Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*	bug 386692 - Missing "unused" warning on "autowired" fields
*	Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*	bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
**********/

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* Stephan Herrmann - Contributions for
* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
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* wharley@bea.com - initial API and implementation
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding
**********/

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* Stephan Herrmann - Contributions for
* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)

```
*       bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*******************************************************************************/
```

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*     Stephan Herrmann - Contribution for
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 185682 - Increment/decrement operators mark local variables as read
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*       Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 458396 - NPE in CodeStream.invoke()
```

```
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*     Robert Roth <robert.roth.off@gmail.com> - Contributions for
*       Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
*******************************************************************************/
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java
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*    IBM Corporation - Java 8 support
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* Bug 473178
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*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*        Bug 407191 - [1.8] Binary access support for type annotations
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*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
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*       Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*       Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
* Bug 431408 - Java 8 (1.8) generics bug
* Bug 435962 - [RC2] StackOverFlowError when building
* Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
 * Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
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*     Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 388996 - [compiler][resource] Incorrect
 'potential resource leak'
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
```

context
*	Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*	Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*	Bug 427438 - [1.8][compiler]
 NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*	Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*	Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*	Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*		Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
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*	bug 349326 - [1.7] new warning for missing try-with-resources
*	bug 374605 - Unreasonable warning for enum-based switch statements
*	bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*	bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*	bug 401030 - [1.8][null] Null analysis support for lambda methods.
*	Bug
 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*	Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*	Jesper S Moller - Contributions for
*	bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
***/

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java

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* Contributors:
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*          bug 185682 - Increment/decrement operators mark local variables as read
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 331649 - [compiler][null] consider
 null annotations for fields
*       Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*     Jesper S Møller <jesper@selskabet.org> -  Contributions for
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
*******************************************************************************/
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/Constant.java
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*   Stephan Herrmann - Contributions for
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*   Bug 440282 - [resource] Resource leak detection false negative with empty finally block
***/

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* Contributors:
* Stephan Herrmann - initial API and implementation
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
* IBM Corporation - Bug fixes
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java
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* bug 383368 - [compiler][null] syntactic null analysis for field references
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* Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
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* bug 331649 - [compiler][null] consider null annotations for fields

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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 376053 - [compiler][resource] Strange potential resource leak problems
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 393719 - [compiler] inconsistent warnings on iteration
variables
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug

392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 382721 - [1.8][compiler] Effectively final variables needs
special treatment
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   bug 413958 - Function override returning inherited Generic Type
*   Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*   Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

```
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 457079 - Regression: type
 inference
*******************************************************************************/
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*     Stephan Herrmann - Contributions for
*       Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it
 extends the outer class
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NestedTypeBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Genady Beriozkin - added support for reporting assignment with no effect
```

```
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 292478 - Report potentially null across variable assignment
*         bug 335093 - [compiler][null] minimal hook for future null annotation support
*         bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
 warning about redundant null check
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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*     Stephan Herrmann - contributions for
*           bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
```

```
*       bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365835 - [compiler][null] inconsistent error reporting.
```

```
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417758 - [1.8][null] Null safety compromise during array creation.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*       Bug 430150 - [1.8][null] stricter checking against type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller - Contributions
 for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*******************************************************************************/
```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java
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*     Stephan Herrmann - Contribution for
*       Bug 458396 - NPE in CodeStream.invoke()
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ProblemHandler.java
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* Contributors:
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*     Stephan Herrmann - Contribution for
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java
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* Stephan Herrmann - Contribution for
* bug 384380 - False positive on a "Potential null pointer access" after a continue
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java
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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 367203 - [compiler][null] detect assigning null to nonnull argument
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

```
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*       Bug 471611 - Error on hover on call to generic method with null annotation
*     Jesper Steen Moller - Contributions for
*       Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/AnnotationDiscoveryVisitor.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                    Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*     Till Brychcy - Contributions for
*          bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
*
 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
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```
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*       bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       bug 404728 - [1.8]NPE on QualifiedSuperReference error
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/messages.properties
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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*
* Contributors:
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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug
383368 - [compiler][null] syntactic null analysis for field references
* bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style
null annotations
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
**********/

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* tyeung@bea.com - initial API and implementation
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java

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*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*        bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
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*     Stephan Herrmann - Contributions for
*        Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*        Bug 388630 - @NonNull diagnostics at line 0
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*        Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*        Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
```

the outer class
 *   Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*   Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
*   Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
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*   het@google.com - Bug 441790
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* Contributors:
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*       bug 328281 - visibility leaks not detected when analyzing unused field in private class
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*       bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 366063 - Compiler should not add synthetic @NonNull annotations
*       bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*       bug 386356 - Type mismatch error with annotations and generics
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*       bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
```

```
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Till Brychcy - Contributions for
*          bug 415269 - NonNullByDefault is not always inherited to nested classes
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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*    wharley@bea.com - initial API and implementation
*    IBM Corporation - fix for 342598
*    IBM Corporation - Java 8 support
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
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* Contributors:
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* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug
400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

```
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 431581 - Eclipse compiles what it should not
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 446442 - [1.8] merge null annotations from
 super methods
*       Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                       bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                       bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
*     Sebastian Zarnekow - Contributions
 for
*       bug 544921 - [performance] Poor performance with large source files
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3
```

Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 446442 - [1.8] merge null annotations from super methods
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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* Contributors:
* wharley@bea.com - initial API and implementation
* (originally in org.eclipse.jdt.apt.core)
* IBM Corporation - Bug 513790
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* Jesper Steen Moller - Contributions for:
* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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* Bug 407297: [1.8][compiler] Control generation of parameter names by option
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*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*     Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*    IBM Corporation - Fix for bug 328575
*    het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
*******************************************************************************/
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* Stephan Herrmann - Contribution for bug 295551
* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Frits Jalvingh - contributions for bug 533830.
* Red Hat Inc. - add module-info Javadoc support
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* Stephan Herrmann - Contribution for
* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Till Brychcy - Contribution for
* Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
**********/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
  E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
  needed for correctness, but for annotated object reuse. We provide two alternate ways to
  annotate a type:

Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
alternate code paths. Unless care is exercised,
we will end up with duplicate objects (that share
the same TypeBinding.id => correctness is not an issue, but memory wastage is)
*/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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* IBM Corporation - initial API and implementation
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Stephan Herrmann - Contribution for

```
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
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* IBM Corporation - initial API and implementation
* Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
* Stephan Herrmann - Contributions for
* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 393719 - [compiler] inconsistent warnings on iteration variables
* bug 382353 - [1.8][compiler] Implementation property modifiers
 should be accepted on default methods.
* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
* bug 401035 - [1.8] A few tests have started failing recently
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 393192 - Incomplete type hierarchy with > 10 annotations
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
**********/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Literal.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java

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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
```

Found in path(s):
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java
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*     Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*       Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*       Bug 456924 - StackOverflowError during compilation
*       Bug 462790 - [null] NPE in Expression.computeConversion()
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*       Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java

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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
null test in lazy disjunction
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*          bug 325755 - [compiler] wrong initialization state after conditional expression
*          bug 320170 - [compiler] [null] Whitebox issues in null analysis
*          bug 292478 - Report potentially null across variable assignment
*          bug 332637 - Dead Code detection removing code that isn't dead
*          bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *          bug 349326 - [1.7] new warning for missing try-with-resources
*      bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*      bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*      bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*      Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*      Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*      Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
```

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* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 421035 - [resource]
False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FlowInfo.java
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* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 458396 - NPE in CodeStream.invoke()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
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 /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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*   Bug 427438 - [1.8][compiler] NPE at
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeMirrorImpl.java

1.868 pyparsing 3.1.0

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1.869 cachecontrol 0.12.10

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Metadata-Version: 2.1
Name: CacheControl
Version: 0.12.10
Summary: httplib2 caching for requests
Home-page: https://github.com/ionrock/cachecontrol
Author: Eric Larson
Author-email: eric@ionrock.org
License: UNKNOWN
Description: ..
SPDX-FileCopyrightText: SPDX-FileCopyrightText: 2015 Eric Larson

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==========
CacheControl
==========

.. image:: https://img.shields.io/pypi/v/cachecontrol.svg
:target: https://pypi.python.org/pypi/cachecontrol
:alt: Latest Version

.. image:: https://travis-ci.org/ionrock/cachecontrol.png?branch=master
:target: https://travis-ci.org/ionrock/cachecontrol

CacheControl is a port of the caching algorithms in httplib2_ for use with
requests_ session object.

It was written because httplib2's
better support for caching is often
mitigated by its lack of thread safety. The same is true of requests in
terms of caching.

Quickstart
==========

.. code-block:: python

import requests

from cachecontrol import CacheControl

sess = requests.session()
cached_sess = CacheControl(sess)

response = cached_sess.get('http://google.com')

If the URL contains any caching based headers, it will cache the
result in a simple dictionary.

For more info, check out the docs_

.. _docs: http://cachecontrol.readthedocs.org/en/latest/
.. _httplib2: https://github.com/httplib2/httplib2
.. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web
Environment
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Topic :: Internet :: WWW/HTTP
Requires-Python: >=3.6
Provides-Extra: redis
Provides-Extra: filecache

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1.870 jetty-util 9.4.53.v20231009

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

The following artifacts are EPL and ASL2.

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.871 jetty-servlets 9.4.53.v20231009

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

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

Oracle

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

* javax.servlet:javax.servlet-api

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

Apache

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

MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

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

Assorted

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* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

Apache

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

MortBay

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.874 sql-migrate 1.7.1

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1.875 filepath-securejoin 0.3.6

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1.876 pam 1.4.0-11ubuntu2.5

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1.877 protobuf-go 1.35.1

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1.878 protobuf-go 1.36.4

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1.879 otel-sdk 1.34.0

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

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

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.895 jetty-security 9.4.57.v20241219

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

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

Oracle

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

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

Oracle OpenJDK

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

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
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1.899 spf13-pflag 1.0.6

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1.900 javax-activation 1.1.1

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```

Found in path(s):

* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/URLDataSource.java
* /com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/viewers/ImageViewerCanvas.java
* /com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/viewers/TextEditor.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/MimeTypeParseException.java

* /com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/registries/MimeTypeEntry.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/MimeTypeParameterList.java
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*
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* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/FileDataSource.java
* /com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/registries/LogSupport.java
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* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/FileTypeMap.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/ActivationDataFlavor.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/DataContentHandlerFactory.java
*
/com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/registries/MailcapParseException.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/MailcapCommandMap.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/UnsupportedDataTypeException.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/CommandObject.java
* /com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/viewers/TextViewer.java
* /com-springsource-javax-activation-sources-1-1-1-jar/javax/activation/DataHandler.java
* /com-springsource-javax-activation-sources-1-1-1-jar/com/sun/activation/registries/MailcapFile.java
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@(#)package.html 1.2 07/05/14

-->

Found
in path(s):
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1.901 errdefs 0.3.0

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1.902 glibc 2.35-0ubuntu3.9

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free

library does the
same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
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Although the Lesser General Public License is Less protective of the
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linked with the Library has the freedom and the wherewithal to run
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former
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@enumerate a
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@item
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@item
You must
cause the whole of the work to be licensed at no
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@item
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table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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of that work are not derived from the Library,
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it.

Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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This option is useful when you wish to copy part of the code of
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under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

Library will still fall under Section 6.)

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

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

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

@item
Use a suitable shared library mechanism for linking with the Library. A
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and (2) will operate
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@item
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For an executable, the required form of the ``work that uses the
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@subheading END OF TERMS AND CONDITIONS

@page
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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
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Found in path(s):
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/MetavarInference.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java

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* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/EnumStringArgumentType.java
* /argparse4j-0-9-0-sources-2-
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* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/ArgumentParsers.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/ext/java7/PathArgumentType.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/ext/java7/Java7ExtensionResourceBundle.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/PrefixPattern.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Argument.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java
*
 /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Namespace.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/annotation/Arg.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/ParseState.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/ArgumentAction.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java

* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/TextHelper.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java
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* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/ReflectHelper.java
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/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/UnrecognizedCommandException.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/inf/Subparsers.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java
* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java
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* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java
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* /argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java
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/argparse4j-0-9-0-sources-2-jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java
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1.908 go-units 0.5.0

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1.910 go-connections 0.5.0

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1.911 kubernetes-api 0.32.2

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1.913 kubernetes-client 0.32.2

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1.914 libtasn 4.18.0

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Version 3, 29 June 2007

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.922 simple launcher 1.1.0.14

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==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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==========
Distutils2 Contributors
==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
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- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda
Metadata-Version: 1.0
Name: setuptools
Version: 0.6c9
Summary: Download, build, install, upgrade, and uninstall Python packages -- easily!
Home-page: http://pypi.org/pypi/setuptools
Author: Phillip J. Eby

Author-email: distutils-sig@python.org
License: PSF or ZPL
Description: ==========
Installing and Using Setuptools
==========

.. contents:: **Table of Contents**

Installation Instructions

Windows
=======

Install setuptools using the provided ``.exe`` installer. If you've previously
installed older versions of setuptools, please delete all ``setuptools*.egg``
and ``setuptools.pth`` files from your system's ``site-packages`` directory
(and any other ``sys.path`` directories) FIRST.

If you are upgrading a previous version of setuptools that was installed using
an ``.exe`` installer,
please be sure to also *uninstall that older version*
via your system's "Add/Remove Programs" feature, BEFORE installing the newer
version.

Once installation is complete, you will find an ``easy_install.exe`` program in
your Python ``Scripts`` subdirectory. Be sure to add this directory to your
``PATH`` environment variable, if you haven't already done so.

RPM-Based Systems
==========

Install setuptools using the provided source RPM. The included ``.spec`` file
assumes you are installing using the default ``python`` executable, and is not
specific to a particular Python version. The ``easy_install`` executable will
be installed to a system ``bin`` directory such as ``/usr/bin``.

If you wish to install to a location other than the default Python
installation's default ``site-packages`` directory (and ``$prefix/bin`` for
scripts), please use the ``.egg``-based
installation approach described in the
following section.

Cygwin, Mac OS X, Linux, Other

==========

1. Download the appropriate egg for your version of Python (e.g. ``setuptools-0.6c9-py2.4.egg``). Do NOT rename it.

2. Run it as if it were a shell script, e.g. ``sh setuptools-0.6c9-py2.4.egg``. Setuptools will install itself using the matching version of Python (e.g. ``python2.4``), and will place the ``easy_install`` executable in the default location for installing Python scripts (as determined by the standard distutils configuration files, or by the Python installation).

If you want to install setuptools to somewhere other than ``site-packages`` or your default distutils installation locations for libraries and scripts, you may include EasyInstall command-line options such as ``--prefix``, ``--install-dir``, and so on, following the ``.egg`` filename on the same command line. For example::

sh setuptools-0.6c9-py2.4.egg --prefix=~

You can use ``--help`` to get a full options list, but we recommend consulting the `EasyInstall manual`_ for detailed instructions, especially `the section on custom installation locations`_.

.. _EasyInstall manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _the section on custom installation locations: http://peak.telecommunity.com/DevCenter/EasyInstall#custom-installation-locations

Cygwin Note

If you are trying to install setuptools for the **Windows** version of Python (as opposed to the Cygwin version that lives in ``/usr/bin``), you must make sure that an appropriate executable (``python2.3``, ``python2.4``, or ``python2.5``) is on your **Cygwin** ``PATH`` when invoking the egg. For example, doing the following at a Cygwin bash prompt will install setuptools for the **Windows** Python found at ``C:\\Python24``::

```
ln -s /cygdrive/c/Python24/python.exe python2.4
PATH=.:$PATH sh setuptools-0.6c9-py2.4.egg
rm python2.4
```

Downloads
=========

All setuptools downloads can be found at `the project's home page in the Python

Package Index`_. Scroll to the very bottom of the page to find the links.

.. _the project's home page in the Python Package Index: http://pypi.org/pypi/setuptools

In addition to the PyPI downloads, the development version of ``setuptools``
is available from the `Python SVN sandbox`_, and in-development versions of the
`0.6 branch`_ are available as well.

.. _0.6 branch: http://svn.python.org/projects/sandbox/branches/setuptools-0.6/#egg=setuptools-dev06

.. _Python SVN sandbox: http://svn.python.org/projects/sandbox/trunk/setuptools/#egg=setuptools-dev

---
Using
Setuptools and EasyInstall

Here are some of the available manuals, tutorials, and other resources for
learning about Setuptools, Python Eggs, and EasyInstall:

* `The EasyInstall user's guide and reference manual`_
* `The setuptools Developer's Guide`_
* `The pkg_resources API reference`_
* `Package Compatibility Notes`_ (user-maintained)
* `The Internal Structure of Python Eggs`_

Questions, comments, and bug reports should be directed to the `distutils-sig
mailing list`_. If you have written (or know of) any tutorials, documentation,
plug-ins, or other resources for setuptools users, please let us know about
them there, so this reference list can be updated. If you have working,
tested patches to correct problems or add features, you may submit them to
the `setuptools bug tracker`_.

.. _setuptools bug tracker: http://bugs.python.org/setuptools/
.. _Package Compatibility Notes: http://peak.telecommunity.com/DevCenter/PackageNotes
.. _The Internal Structure of Python Eggs: http://peak.telecommunity.com/DevCenter/EggFormats
.. _The setuptools Developer's Guide: http://peak.telecommunity.com/DevCenter/setuptools
.. _The pkg_resources API reference: http://peak.telecommunity.com/DevCenter/PkgResources
.. _The EasyInstall user's guide and reference manual: http://peak.telecommunity.com/DevCenter/EasyInstall
.. _distutils-sig mailing list: http://mail.python.org/pipermail/distutils-sig/

Credits
---

* The original design for the ``.egg`` format and the ``pkg_resources`` API was
co-created by Phillip Eby and Bob Ippolito. Bob also implemented the first

version of ``pkg_resources``, and supplied the OS X operating system version compatibility algorithm.

* Ian Bicking implemented many early "creature comfort" features of easy_install, including support for downloading via Sourceforge and Subversion repositories. Ian's comments on the Web-SIG about WSGI application deployment also inspired the concept of "entry points" in eggs, and he has given talks at PyCon and elsewhere to inform and educate the community about eggs and setuptools.

* Jim Fulton contributed time and effort to build automated tests of various aspects of ``easy_install``, and supplied the doctests for the command-line ``.exe`` wrappers on Windows.

* Phillip J. Eby is the principal author and maintainer of setuptools, and first proposed the idea of an importable binary distribution format for Python application plug-ins.

* Significant parts of the implementation of setuptools were funded by the Open Source Applications Foundation, to provide a plug-in infrastructure for the Chandler PIM application.

In addition, many OSAF staffers (such as Mike "Code Bear" Taylor) contributed their time and stress as guinea pigs for the use of eggs and setuptools, even before eggs were "cool". (Thanks, guys!)

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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Binder.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/W3CDomHandler.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlSchemaType.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/SchemaOutputResolver.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAnyElement.java
*
 /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAttachmentRef.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAccessOrder.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlList.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlMixed.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/attachment/AttachmentMarshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlMimeType.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/UnmarshallerHandler.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/JAXBContext.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java

* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/JAXBSource.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/Messages.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/ValidationEventCollector.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ContextFinder.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Messages.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/util/JAXBResult.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/MarshalException.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/TypeConstraintException.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Element.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Unmarshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationEvent.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
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 /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationEventHandler.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Marshaller.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationEventLocator.java
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1.927 hikaricp-java7 2.4.13

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* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/HikariPool.java
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1.930 x-oauth2 0.27.0

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1.931 jetty 9.4.57.v20241219

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
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* java.sun.security.ssl

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

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org.apache.taglibs:taglibs-standard-impl

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

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1.934 jsonpatch 5.9.11

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1.935 google-go-cmp 0.7.0

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1.936 kubernetes-apiserver-extensions 0.32.2

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1.937 kerberos 1.19.2-2ubuntu0.6

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c

lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c

lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.939 prometheus-client 1.21.1

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1.941 netty-transport-native-unix-common 4.1.119.Final

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* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/IovArray.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/Unix.java
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 /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
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* /netty-transport-native-unix-common-4-1-119-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_util.h
*
 /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
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* /netty-transport-native-unix-common-4-1-119-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/Limits.java

* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_limits.h
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
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* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/Errors.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_errors.c
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_filedescriptor.h
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_errors.h
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_socket.c
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/UnixChannel.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_socket.h
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/Socket.java
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_filedescriptor.c
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
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* /netty-transport-native-unix-common-4-1-119-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java
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jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
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jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
* /netty-transport-native-unix-common-4-1-119-final-sources-
jar/io/netty/channel/unix/DomainDatagramPacket.java
*
 /netty-transport-native-unix-common-4-1-119-final-sources-
jar/io/netty/channel/unix/DomainDatagramChannel.java
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jar/io/netty/channel/unix/SegmentedDatagramPacket.java
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* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_buffer.h
* /netty-transport-native-unix-common-4-1-119-final-sources-jar/netty_unix_buffer.c

1.942 netty-transport-classes-epoll 4.1.119.Final

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* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

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* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
*
 /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */
/**
    * Set the {@code TCP_QUICKACK} option on the socket.
    * See TCP_QUICKACK
    * for more details.
    */

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/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

   */

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* /netty-transport-classes-epoll-4-1-119-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
```

```
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
```

```
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
```

```
*            }
*        }
*    }
*    ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*    private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*    {@code @Override}
*    public void initChannel({@link Channel} channel) {
*        channel.pipeline().addLast("handler", <b>SHARED</b>);
*    }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
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*
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/internal/package-info.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java

* /netty-transport-4-1-119-final-sources-jar/io/netty/bootstrap/FailedChannel.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
*
 /netty-transport-4-1-119-final-sources-jar/io/netty/channel/local/package-info.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/package-info.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/DefaultEventLoop.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
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 /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/embedded/package-info.java
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 /netty-transport-4-1-119-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelOption.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ServerChannel.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/nio/NioTask.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/AbstractServerChannel.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/oio/package-info.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
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 /netty-transport-4-1-119-final-sources-jar/io/netty/channel/pool/ChannelPool.java
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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

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* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/pool/package-info.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /netty-transport-4-1-119-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
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* /netty-resolver-4-1-119-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
* /netty-resolver-4-1-119-final-sources-jar/io/netty/resolver/package-info.java
* /netty-resolver-4-1-119-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
*
 /netty-resolver-4-1-119-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
* /netty-resolver-4-1-119-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

1.945 netty-handler 4.1.119.Final

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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
*
/netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/flow/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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/netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ResumableX509ExtendedTrustManager.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
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 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ResumptionController.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/stream/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/logging/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/address/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/Ciphers.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/pcap/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/pcap/IPPacket.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
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 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
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 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/PemReader.java

*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/traffic/package-info.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
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 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java
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* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
*
 /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslInternalSession.java
* /netty-handler-4-1-119-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

1.946 netty-codec 4.1.119.Final

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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DateFormatter.java
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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/Headers.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
```

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
```

```
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
```

```
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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```
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
 * The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-119-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
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 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/CodecException.java

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 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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*/

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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-119-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
*

/netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/json/package-info.java
*
/netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
*
 /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
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* /netty-codec-4-1-119-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
*
 /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/StringUtil.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/NetUtil.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java

* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/package-info.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/HashedWheelTimer.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/AttributeKey.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/TimerTask.java
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 /netty-common-4-1-119-final-sources-jar/io/netty/util/CharsetUtil.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/AttributeMap.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/PlatformDependent.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/Signal.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/package-info.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/Timeout.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java
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 /netty-common-4-1-119-final-sources-jar/io/netty/util/Timer.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/EventExecutor.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/Constant.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/NetUtilInitializations.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/NetUtilSubstitutions.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/Future.java
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 /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/PendingWrite.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/EmptyArrays.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/ResourceLeakDetector.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/Recycler.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/package-info.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/ReferenceCounted.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java

* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/ResourceLeak.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/ConstantPool.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/PromiseTask.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/package-info.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/Promise.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/Version.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
*
 /netty-common-4-1-119-final-sources-jar/io/netty/util/ResourceLeakException.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/PlatformDependent0.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/DomainNameMapping.java
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 /netty-common-4-1-119-final-sources-jar/io/netty/util/AsciiString.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java

* /netty-common-4-1-119-final-sources-jar/io/netty/util/ResourceLeakHint.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/IntegerHolder.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/BooleanSupplier.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PaddedAtomicLong.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/CharObjectMap.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/LongObjectMap.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/ShortObjectMap.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/ByteCollections.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/IntObjectMap.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/IntCollections.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/ObjectUtil.java
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 /netty-common-4-1-119-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/LongCounter.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/DomainMappingBuilder.java
*
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/HashingStrategy.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/PriorityQueue.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/NettyRuntime.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/SuppressForbidden.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/ObjectPool.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/Hidden.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/svm/package-info.java
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* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java
*
/netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
* /netty-common-4-1-119-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java

1.948 x-sys 0.31.0

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1.949 netty-transport-native-epoll 4.1.119.Final

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* /netty-transport-native-epoll-4-1-119-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml

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* /netty-transport-native-epoll-4-1-119-final-sources-jar/netty_epoll_linuxsocket.h
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* /netty-transport-native-epoll-4-1-119-final-sources-jar/netty_epoll_vmsocket.h

1.950 go-restful 3.12.2

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1.951 configparser 7.2.0

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1.953 failureaccess 1.0.1

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* /failureaccess-1-0-1-sources-13-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
* /failureaccess-1-0-1-sources-13-jar/com/google/common/util/concurrent/internal/InternalFutures.java

1.954 x-net 0.37.0

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1.955 x-text 0.23.0

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1.956 x-term 0.30.0

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1.957 kubernetes-component-base 0.32.2

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1.958 kubernetes-apiserver 0.32.2

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

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

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

Oracle OpenJDK

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* java.sun.security.ssl

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

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

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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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org.eclipse.jetty.toolchain:jetty-schemas

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1.970 etcd-api 3.5.19

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd

- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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org.apache.tomcat.util.json.JSONParser.jj is
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd

- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
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1.979 kubernetes-cliruntime 0.32.2

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1.980 kubernetes-kubectl 0.32.2

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1.981 protobuf-go 1.36.6

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1.982 elfutils 0.186-1ubuntu0.1

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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# visible at https://tip.golang.org/CONTRIBUTORS.
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package spec

import "testing"

```
func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-
E&type=items).

Features
---

*
 Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
 Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
      NamedType('id', Integer()),
      OptionalNamedType(
         'room', Integer().subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
         )
      ),
      DefaultedNamedType(

    'house', Integer(0).subtype(
            implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
         )
      )
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
```

```
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect,
 modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
```

```
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record =
 decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from
 [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](http://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python
==========

.. toctree::
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Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements

ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its
designers
and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
(integers, bits, strings, arrays and records) that can be used for
describing
arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a
series of octets for storage or transmission over the wire as well as
recovered back into their structured form. The system is fully agnostic
to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
of a schema language for ASN.1 compiler to turn it into platform-specific
implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely

adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP,
 CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
  :maxdepth: 2

  /pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
  :maxdepth: 2

/download

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
:maxdepth: 1

/changelog

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.. toctree::
:maxdepth: 2

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_ and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub. Alternatively, you could ask for help at `Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_ or search `pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_ mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU
 standards <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
book on the subject.

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* /pyasn1-0-4-2-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst
No license file was found, but licenses were detected in source scan.

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1.986 systemd 249.11-0ubuntu3.15

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1.987 golang 1.24.2

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }
```

```
  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.989 go-systemd 22.5.0

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former contains code derived from the library,
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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1.1005 genproto-googleapis-rpc 0.0.0-20250324211829-b45e905df463

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1.1006 x-sys 0.32.0

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1.1009 x-sync 0.13.0

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1.1011 x-crypto 0.37.0

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1.1012 netty-buffer 4.1.119.Final

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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/IntPriorityQueue.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/LongLongHashMap.java
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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/DefaultByteBufHolder.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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 /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/ByteBufProcessor.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/AbstractDerivedByteBuf.java
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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
*
 /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/search/SearchProcessor.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/search/SearchProcessorFactory.java
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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/ByteBufUtil.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/CompositeByteBuf.java
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 /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/UnpooledHeapByteBuf.java
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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/PoolArena.java
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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/SwappedByteBuf.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/DuplicatedByteBuf.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/PooledByteBuf.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/Unpooled.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/PoolChunk.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/SlicedByteBuf.java
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 /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/package-info.java
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* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
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 /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/PoolSubpageMetric.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/PoolChunkListMetric.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/HeapByteBufUtil.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/UnsafeByteBufUtil.java
* /netty-buffer-4-1-119-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
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Source: http://www.perl.com/CPAN/src/5.0/
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1.1014 prometheus-client 1.22.0

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1.1015 fiorix-go-diameter 4.0.0-00010101000000-000000000000

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```

#
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1.1016 bcel 5.1

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* /bcel-5-1-sources-7-jar/org/apache/bcel/Repository.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/ReturnInstruction.java
*
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/DSTORE.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/F2D.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/IASTORE.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/classfile/ConstantLong.java

* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/LLOAD.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/DUP_X1.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/util/ConstantHTML.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/VerifierAppFrame.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/util/InstructionFinder.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/structurals/ControlFlowGraph.java
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 /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/statics/Pass2Verifier.java
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* /bcel-5-1-sources-7-jar/org/apache/bcel/generic/StackInstruction.java
* /bcel-5-1-sources-7-jar/org/apache/bcel/verifier/exc/ClassConstraintException.java
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* This class represents an uninitialized object type; see The Java
* Virtual Machine Specification, Second Edition, page 147: 4.9.4 for
* more details.
*
* @version $Id: UninitializedObjectType.java,v 1.1.1.1 2001/10/29 20:00:42 jvanzyl Exp $
* @author <A
 HREF="http://www.inf.fu-berlin.de/~ehaase"/>Enver Haase</A>
*/

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1.1017 logback-core 1.3.15

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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/recovery/RecoveryListener.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/DependencyDefinition.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/EventEvaluatorModel.java

* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/conditional/IfAction.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/ImportModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/conditional/ElseAction.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/ComponentModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/util/TagUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/InsertFromJNDIModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/PhaseIndicator.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/ModelInterpretationContext.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/ModelHandlerBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/conditional/ThenAction.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/ShutdownHookModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/NOPModelHandler.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/conditional/ThenModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/ImplicitModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/TimestampModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/util/ParentTag_Tag_Class_Tuple.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/AppenderModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/conditional/IfModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/ErrorCodes.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/conditional/IfModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/ModelConstants.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/SequenceNumberGeneratorModel.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/ShutdownHookModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/Model.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/StatusListenerModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/TimestampModel.java
* /logback-core-1-3-15-sources-1-
jar/ch/qos/logback/core/model/processor/SequenceNumberGeneratorModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/BaseModelAction.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/DefineModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/SiftModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/conditional/ElseModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/ProcessingPhase.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/conditional/ElseModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/sanity/SanityChecker.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/AppenderRefDependencyAnalyser.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/RefContainerDependencyAnalyser.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/ImplicitModelAction.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/NamedModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/ModelHandlerFactoryMethod.java

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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/color/BoldWhiteCompositeConverter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/CharSequenceState.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/ssl/SSLConfigurable.java
*
 /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/ComponentTracker.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/ContextAware.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/QueueFactory.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/AppenderBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/ContextAwareBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/ElementSelector.java

* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/JNDIUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/Duration.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/helper/FileStoreUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/server/RemoteReceiverClient.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/status/OnConsoleStatusListener.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/IncludeAction.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/sift/SiftProcessor.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/DefaultInvocationGate.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/sift/AppenderFactory.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/LoginAuthenticator.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/hook/ShutdownHook.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/RuleStore.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/CoreConstants.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/FileAppender.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/recovery/ResilientFileOutputStream.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/RollingFileAppender.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/parser/Parser.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/helpers/NOPAppender.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/helper/DateTokenConverter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/html/NOPThrowableRenderer.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/util/IEscapeUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/helper/CompressionMode.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/node/ComponentNode.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/ssl/SSLNestedComponentRegistryRules.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/SyslogAppenderBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/color/ANSIConstants.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/status/StatusListener.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/DefinePropertyAction.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/SaxEventInterpreter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java

* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/read/ListAppender.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/FileUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedRollingPolicy.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/subst/Token.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/encoder/Encoder.java
*
/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/SpacePadder.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/subst/Parser.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/parser/Node.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/util/AlmostAsIsEscapeUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/event/EndEvent.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/property/FileExistsPropertyDefiner.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/ImcplicitActionDataForBasicProperty.java
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/logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/status/WarnStatus.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/EventPlayer.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/ConfigurationWatchList.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/PatternLayoutBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/event/SaxEventRecorder.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/CompositeConverter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/ConverterUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/SyslogConstants.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/color/BlueCompositeConverter.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java
* /logback-core-1-3-15-sources-1-
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/SystemInfo.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/LifeCycleManager.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/DeferredProcessingAware.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/color/BoldCyanCompositeConverter.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/PropertyAction.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/ObjectWriter.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/sift/DefaultDiscriminator.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/AppenderAttachable.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/filter/EvaluatorFilter.java

* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/status/InfoStatus.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/ActionException.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/conditional/Condition.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/AppenderRefAction.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/pattern/FormatInfo.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/html/CssBuilder.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/boolex/EvaluationException.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/NoAutoStart.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/net/SocketConnector.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/OptionHelper.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/DelayStrategy.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/spi/ElementPath.java

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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java

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```

Found in path(s):
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/TeeOutputStream.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/DelayingListAppender.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/ConfigurationEvent.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java
*
 /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/FileTestUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/CoreTestConstants.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/RandomUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/SimpleInvocationGate.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/MockInitialContext.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/spi/ConfigurationEventListener.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/MockInitialContextFactory.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/NPEAppender.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/testUtil/StringListAppender.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/sift/NOPSiftModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/sift/SiftModelHandler.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/sift/SiftingAppenderBase.java
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* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/util/EnvUtil.java
* /logback-core-1-3-15-sources-1-
jar/ch/qos/logback/core/joran/sanity/AppenderWithinAppenderSanityChecker.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/DefaultProcessor.java
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Found in path(s):
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/SerializeModelModel.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/encoder/JsonEscapeUtil.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/action/SerializeModelAction.java

* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/joran/ModelClassToModelHandlerLinkerBase.java
* /logback-core-1-3-15-sources-1-jar/ch/qos/logback/core/model/processor/SerializeModelModelHandler.java

1.1018 apache-http-server 2.4.52-1ubuntu4.14

1.1018.1 Available under license :

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This is a library of functions to support regular expressions whose syntax
and semantics are as close as possible
 to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.
.
This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.

.
Written by: Philip Hazel <ph10@cam.ac.uk>
.
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Illinois at Urbana-Champaign
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httpd@ncsa.uiuc.edu
.
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****
.
md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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 Haines
This imagemap module started as a port of the original imagemap.c
written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).
This version includes the mapping algorithms found in version 1.3
of imagemap.c.
.
Contributors to this code include:
.
Kevin Hughes, kevinh@pulua.hcc.hawaii.edu
.
Eric Haines, erich@eye.com

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.
Randy Terbush, randy@zyzzyva.com
port to Apache module format, "base_uri" and support for relative URLs
.
James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu
.
Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
ImapMenu {none, formatted, semiformatted, unformatted}
ImapDefault {error, nocontent, referer, menu,
URL}
ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
Old: directive URL [x,y ...]
New: directive URL "Menu text" [x,y ...]
or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.
.
Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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.
For compliance with Mr Darwin's terms: this has been very significantly
modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one
version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.

- All functions have had necessary Apache API request or server
  structures passed to them where
  necessary to call other Apache API
  routines. (i.e. usually for logging, files, or memory allocation in
  itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
  list because it only grows one record at a time, it's only accessed
  sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.

.

Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

.

Initial installation July/August 1996
Misc bug fixes May 1997
Submission
to Apache Software Foundation July 1997

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.
C LALR(1) parser skeleton written by Richard Stallman, by
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1.1019 prometheus-client-model 0.6.2

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1.1020 grpc-gateway 2.16.0

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1.1021 pierrec-lz4 4.1.22

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1.1023 ldap 3.4.11

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1.1024 protobuf-go 1.33.0

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1.1025 commons-dbcp 9.0.80

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
 - javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd

- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

Oracle

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

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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

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

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

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
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1.1038 golang 1.24.3

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
```

```
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.1039 x-net 0.40.0

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1.1040 x-sys 0.33.0

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1.1041 x-text 0.25.0

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1.1042 x-crypto 0.38.0

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1.1043 kustomize-api 0.19.0

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1.1044 kustomize-kustomize 5.6.0

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1.1045 google-cloud-go 0.110.7

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package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()
```

```
req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
  // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()
```

```
 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 resp, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy()
 {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 resp, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_List() {
 ctx :=
 context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func
 ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
```

```
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
```

```
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
 However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
```

```
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

//
 Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
 fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licenseCodesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
```

```
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

//
 Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
```

```
req.GetLicenseCode())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp,
 err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if
```

```
 err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.TestPermissionsResponse{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return
 rsp, nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}
```

```
// internalLicensesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
 (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions
 *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}
```

```
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
 (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party
 partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
```

```
 any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint
 string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licensesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}
```

```
func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
 err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Operation{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 op := &Operation{proto: rsp}
 return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
```

```
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v
 := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.License{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, _
 := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()
```

```
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 rsp := &computepb.Policy{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
```

```
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if
err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
```

```
list of publicly-available
 licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, _ := url.Parse(c.endpoint)
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
 req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return nil, "", err
  }

  // Set the headers
  for k, v := range c.xGoogMetadata {
```

```
  httpReq.Header[k] = v
 }

 httpReq.Header["Content-Type"] = []string{"application/json"}
 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return nil, "", err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, "", err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, "", err
 }

 unm.Unmarshal(buf, resp)
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c
 *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
```

```
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if
 err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Policy{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
```

```
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 httpReq,
 err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.TestPermissionsResponse{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}
```

```
// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is
 the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License,
 error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
```

}

1.1046 kustomize-kyaml 0.19.0

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1.1047 etcd-server 3.5.21

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1.1048 etcd-client-pkg 3.5.19

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1.1049 golang-glog 1.2.5

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1.1055 etcd-client 2.305.21

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1.1056 slf4j-log4j 1.7.36

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* /slf4j-reload4j-1-7-36-sources-jar/org/slf4j/impl/Reload4jLoggerAdapter.java
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* /slf4j-reload4j-1-7-36-sources-jar/org/slf4j/impl/Reload4jLoggerFactory.java
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* /slf4j-reload4j-1-7-36-sources-jar/org/slf4j/impl/StaticMDCBinder.java
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1.1057 open-ldap 2.5.19+dfsg-0ubuntu0.22.04.1

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>

X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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  * Date: Wed, 28 May 2003 10:55:44 -0700
 * Cc: Steve Langasek <vorlon@netexpress.net>,debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
 * In-reply-to: <20030528162613.GB8524@ns.snowman.net>

* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
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1.1058 tomcat-juli 9.0.105

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
```

```
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
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==========
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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
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Protocol Buffers for Go with Gadgets

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

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The common/types/pb/equal.go modification of proto.Equal logic

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jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
*
 /spring-aop-5-3-39-sources-2-
jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
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jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
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*
/spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AopProxyUtils.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java
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1.1067 sqlite 3.37.2-2ubuntu0.4

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1.1068 tomcat-jni 9.0.105

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1.1069 tomcat-util-scan 9.0.105

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1.1072 pycryptodome 3.23.0

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1.1073 glib 2.72.4

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1.1074 python-setuptools 80.9.0

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You can report issues or suggest changes directly to `validate-pyproject`
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- https://github.com/abravalheri/validate-pyproject/issues

***

The following files include code from opensource projects
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- `fastjsonschema_exceptions.py`:
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    (https://github.com/horejsek/python-fastjsonschema)
- `extra_validations.py` and `format.py`, `error_reporting.py`:
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Additionally
 the following files are automatically generated by tools provided
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- `__init__.py`
- `fastjsonschema_validations.py`

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***

`fastjsonschema`
==========

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`validate-pyproject`
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Manifest-Version: 1.0
Bnd-LastModified: 1717253512851
Build-Jdk-Spec: 1.8
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 4.0.5
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: org.jctools.maps;version="4.0.5",org.jctools.util;vers
ion="4.0.5";uses:="sun.misc",org.jctools.queues;version="4.0.5",org.j
ctools.queues.atomic;version="4.0.5";uses:="org.jctools.queues",org.j
ctools.queues.atomic.unpadded;version="4.0.5";uses:="org.jctools.queu
es",org.jctools.queues.unpadded;version="4.0.5";uses:="org.jctools.qu
eues",org.jctools.counters;version="4.0.5"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.3.1.202206071316

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*
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1.1076 glibc 2.35-0ubuntu3.10

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

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

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@enumerate a
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The modified work must itself be a software library.

@item
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@item
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cause the whole of the work to be licensed at no
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@item
If a facility in the modified Library refers to a function or a
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this
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@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and

2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a

work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

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

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

@item
Accompany the work with a written offer, valid for at
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@item
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@item
Verify that the user has already received a copy of these
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@end enumerate

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

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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@enumerate a
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uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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@end enumerate

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@subheading END OF TERMS AND CONDITIONS

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

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

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c

lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
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lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.1080 python-setuptools 59.6.0-1.2ubuntu0.22.04.3

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1.1082 logr 1.4.3

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1.1083 genproto-googleapis-rpc 0.0.0-20250603155806-513f23925822

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1.1084 golang 1.24.4

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
```

```
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
```

```
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.1088 x-time-rate 0.12.0

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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd

- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html
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related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is
 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

1.1091 git 1:2.34.1-1ubuntu1.12

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1.1092 openssh 1:8.9p1-3ubuntu0.13

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
```

```
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

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* @version 3.0 (December 2000)
*
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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*
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------
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#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)

#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
#endif

#ifndef HAVE_FSBLKCNT_T
```

```
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif

#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
    /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
    /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
    /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif

#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
int fstatvfs(int, struct statvfs *);
#endif
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#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);
int seed_from_prngd(unsigned char *, size_t);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0, getpid())
#endif
 /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */

#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */

#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif

#if !defined(HAVE_SETLINEBUF)
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif
```

```
#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(char *, struct timeval *);
#endif /* HAVE_UTIMES */

#ifndef AT_FDCWD
#
 define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
# include <time.h>
int nanosleep(const struct timespec *, struct timespec *);
#endif

#ifndef HAVE_UTIMENSAT
# include <time.h>
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
#  define AT_SYMLINK_NOFOLLOW 0x80000000
# endif
int utimensat(int, const char *, const struct timespec[2], int);
```

```
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int tcsendbreak(int, int);
#endif

#ifndef
 HAVE_UNSETENV
int unsetenv(const char *);
#endif

#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
   const sigset_t *);
#endif

#ifndef HAVE_ENDGRENT
# define endgrent() do { } while(0)
#endif

#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
#endif

#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif

#ifndef HAVE_PLEDGE
int pledge(const char *promises, const char *paths[]);
#endif
```

```
/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_LLABS
long long llabs(long long);
#endif

#if defined(HAVE_DECL_BZERO)
 && HAVE_DECL_BZERO == 0
void bzero(void *, size_t);
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
#endif

#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#ifndef HAVE_REALPATH
#define realpath(x, y) (sftp_realpath((x), (y)))
#endif
```

```
#endif /* _BSD_MISC_H */
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*/

#ifndef _BSD_SIGNAL_H
#define _BSD_SIGNAL_H

#include "includes.h"

#include <signal.h>

#ifndef _NSIG
# ifdef NSIG
#  define _NSIG NSIG
# else
#  define _NSIG 128
# endif
#endif

#if !defined(HAVE_STRSIGNAL)
char
 *strsignal(int);
#endif

#endif /* _BSD_SIGNAL_H */
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* Created: Sat Sep 02 12:17:00 2000 cv
*
* This file contains functions for forcing opened file descriptors to
* binary mode on Windows systems.
*/

#ifndef _BSD_CYGWIN_UTIL_H
#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN

#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);

#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
```

```
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
#elif HAVE_SYS_POLL_H
# include <sys/poll.h>
```

```
#endif

#ifndef HAVE_STRUCT_POLLFD_FD
typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

#define POLLIN  0x0001
#define POLLPRI  0x0002
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define
 INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */

#ifndef HAVE_NFDS_T
typedef unsigned int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
#endif

#endif /* !_COMPAT_POLL_H_ */
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*
*/

#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>

/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS

/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);

/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
```

```
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
/*
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.1093 vim 2:8.2.3995-1ubuntu2.24

1.1093.1 Available under license :

```
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        Version 2.1, February 1999

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That's all there is to it!
uganda.txt For Vim version 8.2. Last change: 2020 Jan 08

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
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http://www.vim.org/iccf/
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- If you are happy with Vim, please express that by reading the rest of this

file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
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==========
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents
die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any
religion.

The key to solving the problems in this area is education. This has been
neglected in the past years with president Idi Amin and the following civil
wars. Now that the government is stable again, the children and parents have
to learn how to take care of themselves and how to avoid infections. There is
also help for people who are ill and hungry, but the primary goal is to
prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle

or older
sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold
below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship
the amounts are
very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have

visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
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The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
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Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
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IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
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Rabobank Lisse, account 3765.05.117
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Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
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Address to send checks to:
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Finsterruetihof 1
8134 Adliswil
Switzerland

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1.1095 python3.10 3.10.12-1~22.04.10

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
```

// The following statuses are used for selecting/filtering notifications
SevAll = "all" // show all statuses
)
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==========

The common/types/pb/equal.go modification of proto.Equal logic
==========
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package spec

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process
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==========
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==========
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1.1106 wheel 0.45.1

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1.1108 more-itertools 8.8.0

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1.1110 truststore 0.8.0

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1.1111 cachecontrol 0.13.1

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```
on:
 release:
   types:
     - published

name: release

jobs:
 pypi:
   name: upload release to PyPI
   runs-on: ubuntu-latest

   permissions:
     # Used to authenticate to PyPI via OIDC.
```

```
    # Used to sign the release's artifacts with sigstore-python.
    id-token: write

    # Used to attach signing artifacts to the published release.
    contents: write

  steps:
  - uses: actions/checkout@v3

  - uses: actions/setup-python@v4
    with:
      python-version: ">= 3.6"

  - name: deps
    run: python -m pip install -U build

  - name: build
    run: python -m build

  - name: publish
    uses: pypa/gh-action-pypi-publish@release/v1

  - name: sign
    uses: sigstore/gh-action-sigstore-python@v1.2.3
    with:
      inputs: ./dist/*.tar.gz ./dist/*.whl
      release-signing-artifacts: true
[build-system]
requires = ["flit_core >=3.2,<4"]
build-backend = "flit_core.buildapi"

[tool.flit.module]
name = "cachecontrol"

[tool.flit.sdist]
include = ["tests/"]

[project]
name = "CacheControl"
dynamic = ["version"]
description = "httplib2 caching for requests"
readme = "README.rst"
license = { file = "LICENSE.txt" }
authors = [
  { name = "Eric Larson", email = "ericlarson@ionrock.com" },
  { name = "Frost Ming", email = "me@frostming.com" },
  { name = "William Woodruff", email = "william@yossarian.net" },
]
```

```
classifiers = [
   "Development Status :: 4 - Beta",
   "Environment :: Web Environment",
   "License :: OSI Approved :: Apache Software License",
   "Operating System :: OS Independent",
   "Programming Language :: Python :: 3.6",
   "Programming Language :: Python :: 3.7",
   "Programming Language :: Python :: 3.8",
   "Programming Language :: Python :: 3.9",
   "Programming Language :: Python :: 3.10",
   "Programming Language :: Python :: 3.11",
   "Topic
 :: Internet :: WWW/HTTP",
]
keywords = ["requests", "http", "caching", "web"]
dependencies = ["requests >= 2.16.0", "msgpack >= 0.5.2"]
requires-python = ">=3.7"

[project.urls]
Homepage = "https://pypi.org/project/CacheControl/"
Issues = "https://github.com/psf/cachecontrol/issues"
Source = "https://github.com/psf/cachecontrol"

[project.optional-dependencies]
# End-user extras.
filecache = ["filelock >= 3.8.0"]
redis = ["redis>=2.10.5"]

# Development extras.
dev = [
   "CacheControl[filecache,redis]",
   "build",
   "mypy",
   "tox",
   "pytest-cov",
   "pytest",
   "cherrypy",
   "sphinx",
   "black",
   "types-redis",
   "types-requests",
]

[project.scripts]
doesitcache = "cachecontrol._cmd:main"

[tool.mypy]
show_error_codes = true
```

```
strict = true
enable_error_code = ["ignore-without-code", "redundant-expr", "truthy-bool"]

[[tool.mypy.overrides]]
module = "msgpack"
ignore_missing_imports = true

[tool.pytest.ini_options]
norecursedirs = ["bin", "lib", "include", "build"]
```

Contributing to CacheControl

Thank you for your interest in contributing to `CacheControl`!

The information below will help you set up a local development environment
and perform common development tasks.

Requirements

`CacheControl`'s only external development requirement is Python 3.7 or newer.

Development steps

First, clone this repository:

```bash
git clone https://github.com/psf/cachecontrol
cd cachecontrol
```

Then, bootstrap your local development environment:

```bash
make bootstrap
# OPTIONAL: enter the new environment, if you'd like to run things directly
source .venv/bin/activate
```

Once you've run `make bootstrap`, you can run the other `make` targets
to perform particular tasks.

Any changes you make to the `cachecontrol` source tree will take effect
immediately in the development environment.

Linting

You can run the current formatters with:

```bash
```

make format
```

### Testing

You can run the unit tests locally with:

```bash
# run the test suite in
 the current environment
make test

# OPTIONAL: use `tox` to fan out across multiple interpreters
make test-all
```

Documentation

You can build the Sphinx-based documentation with:

```bash
# puts the generated HTML in docs/_build/html/
make doc
```

Releasing

NOTE: If you're a non-maintaining contributor, you don't need the steps
here! They're documented for completeness and for onboarding future maintainers.

Releases of `CacheControl` are managed by GitHub Actions.

To perform a release:

1. Update `CacheControl`'s `__version__` attribute. It can be found under
  `cachecontrol/__init__.py`.

1. Create a new tag corresponding to your new version, with a `v` prefix. For example:

  ```bash
  # IMPORTANT: don't forget the `v` prefix!
  git tag v1.2.3
  ```

1. Push your changes to `master` and to the new remote tag.

1. Create, save, and publish a GitHub release for your new tag, including any
  `CHANGELOG` entries.
  ```

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```
---
name: CI

on:
 push:
   branches: ["master"]
 pull_request:
   branches: ["master"]
 workflow_dispatch:

jobs:
 tests:
   name: "Python ${{ matrix.python-version }} ${{ matrix.os }}"
   runs-on: "${{ matrix.os }}"

   strategy:
     fail-fast: false
     matrix:
       python-version: ["3.7", "3.8", "3.9", "3.10", "3.11"]
       os: ["macos-latest", "windows-latest", "ubuntu-latest"]

   steps:
     - uses: "actions/checkout@v3"
     - uses: "actions/setup-python@v4"
       with:
         python-version: "${{ matrix.python-version }}"
     - name: "Install dependencies"
       run: |
         python -VV
         python -m site
         python -m pip install --upgrade pip setuptools wheel
         python -m pip install --upgrade virtualenv tox tox-gh-actions

     - name: "Run tox targets for ${{ matrix.python-version }}"
       run: "python -m tox"
```

1.1112 platformdirs 2.6.2

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1.1114 prometheus-common 0.65.0

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1.1115 shadow 1:4.8.1-2ubuntu2.2

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1.1116 libxdmcp 1:1.1.3-0ubuntu5

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1.1117 xorg 1:7.7+23ubuntu2

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1.1118 libxtst 2:1.2.3-1build4

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1.1119 tomcat-el-api 9.0.105

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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* /tomcat-jsp-api-9-0-105-sources-jar/javax/servlet/jsp/tagext/PageData.java
* /tomcat-jsp-api-9-0-105-sources-jar/javax/servlet/jsp/tagext/Tag.java
*
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1.1144 tomcat-jaspic-api 9.0.105

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*
/tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/AuthConfigFactory.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/AuthConfig.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/ClientAuth.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/RegistrationListener.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/ServerAuthConfig.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/ClientAuthContext.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/module/ServerAuthModule.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/MessageInfo.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/AuthException.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/AuthConfigProvider.java
*
/tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/PrivateKeyCallback.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/ClientAuthConfig.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/config/ServerAuthContext.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/CertStoreCallback.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/TrustStoreCallback.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/ServerAuth.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/MessagePolicy.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/AuthStatus.java
*
/tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/module/ClientAuthModule.java

1.1145 charset-normalizer 2.0.9

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1.1146 pyvmomi 7.0.3

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1.1147 profiler 1.1.1

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* /gae-mini-profiler-1-1-1-sources-4-jar/ca/jimr/gae/profiler/MiniProfilerServlet.java
* /gae-mini-profiler-1-1-1-sources-4-jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java
* /gae-mini-profiler-1-1-1-sources-4-jar/ca/jimr/gae/profiler/MiniProfilerFilter.java

1.1148 python-pip 22.0.2+dfsg-1ubuntu0.6

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
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1.1149 libbpf 1:0.5.0-1ubuntu22.04.1

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1.1151 libxcrypt 1:4.4.27-1

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

Preamble

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```
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
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* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)

```
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
```

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static inline int license_is_gpl_compatible(const char *license)
{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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1.1160 sudo 1.9.9-1ubuntu2.5

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Allbery, Russ
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Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
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Cheloha, Scott
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Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
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Esipovich, Marc
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Faigon, Ariel
Farrell, Brian
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G., Daniel Richard
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Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
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Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
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Jackson, John R.
Jackson, Richard L., Jr.
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Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
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Kadow, Kevin
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Krause, David
Lakin, Eric
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McLaughlin, Tom
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Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
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Moldung, Jan Thomas
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Peterson, Toby
Petten, Diego Elio
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Warburton, John
Webb, Kirk
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Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
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Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
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Kazik, Duan
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Keeci, Mehmet
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Shield
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1.1161 go.yaml.in-yaml 3.0.4

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1.1162 gnostic-models 0.7.0

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1.1163 go.yaml.in-yaml 2.4.2

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tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
tests/client/torture_knownhosts.c
tests/client/torture_session.c
tests/test_pcap.c
tests/test_socket.c
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Files: examples/exec.c
examples/senddata.c
examples/CMakeLists.txt
include/libssh/ssh2.h
tests/authentication.c
tests/benchmarks/bench1.sh
tests/benchmarks/bench2.sh
tests/chmodtest.c
tests/client/torture_proxycommand.c
tests/client/torture_sftp_dir.c
tests/client/torture_sftp_read.c
tests/cmdline.c
tests/connection.c
tests/generate.py
tests/sftp_stress/main.c
tests/test_exec.c
tests/test_ssh_bind_accept_fd.c
tests/test_tunnel.c
tests/tests.h
tests/unittests/torture_buffer.c
tests/unittests/torture_callbacks.c
tests/unittests/torture_channel.c
tests/unittests/torture_init.c
tests/unittests/torture_isipaddr.c

tests/unittests/torture_keyfiles.c
tests/unittests/torture_list.c
tests/unittests/torture_misc.c
tests/unittests/torture_options.c
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examples/libssh_scp.c
examples/libsshpp.cpp
examples/libsshpp_noexcept.cpp
examples/proxy.c
examples/samplesftp.c
examples/samplesshd-cb.c
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src/external/ed25519.c
src/external/fe25519.c
src/external/ge25519.c
src/external/ge25519_base.data
src/external/sc25519.c
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Files: tests/pkd/pkd_client.h
tests/pkd/pkd_daemon.c
tests/pkd/pkd_daemon.h
tests/pkd/pkd_hello.c
tests/pkd/pkd_keyutil.c
tests/pkd/pkd_keyutil.h

tests/pkd/pkd_util.c
tests/pkd/pkd_util.h
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src/gzip.c
src/known_hosts.c
src/misc.c
src/options.c
src/pki.c
src/pki_crypto.c
src/pki_gcrypt.c
src/sftp.c
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include/libssh/options.h
src/agent.c
src/callbacks.c
src/config.c
tests/client/torture_forward.c
tests/client/torture_request_env.c
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     cmake/Modules/ExtractSymbols.cmake

cmake/Modules/FindABIMap.cmake
cmake/Modules/FindArgp.cmake
cmake/Modules/FindCMocka.cmake
cmake/Modules/FindGCrypt.cmake
cmake/Modules/FindGSSAPI.cmake
cmake/Modules/FindMbedTLS.cmake
cmake/Modules/FindNSIS.cmake
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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procfs provides functions to retrieve system, kernel and process
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1.1169 python-certifi 2025.7.9

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This package contains a modified version of ca-bundle.crt:

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
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It contains the certificates in PEM format and therefore
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Just configure this file as the SSLCACertificateFile.#

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1.1170 python-certifi 2025.07.09

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file (certdata.txt). This file can be found in the mozilla source tree:
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```
/*  Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
```

```
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:
            FILENAME
      RESULT
            "foo/bar/"    ""
            "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
            FILENAME      RESULT
            "foo/bar/"    "bar"
            "foo/bar//"   "bar"
            "/"           "/"
            "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

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Ext headers	GL/glext.h	Khronos
	GL/glxext.h	Khronos
	GL/wglext.h	Khronos
	KHR/khrplatform.h	Khronos

****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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****

---
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include/GL/glxext.h
include/GL/wglxext.h :

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tree/README

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former maintainer

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current as well as long time former maintainer of giflib code

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tree/openbsd-reallocarray.c

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```

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1.1181 typing-extensions 4.12.2

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.1185 sqlite 3.37.2-2ubuntu0.5

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1.1187 etcd-client 3.6.4

1.1187.1 Available under license :

Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:
- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
  - Feature-related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a stable future.

Stable

A stable feature is characterized as below:
- Supported as part of the supported releases of etcd.
-
 May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following the feature deprecation policy.

Development Guidelines

Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.
- Open an issue
  - It must provide a clear need for the proposed feature.
  - It should list development work items as checkboxes. There must be one work item towards future graduation to

a stable future.
  - Label the issue with `type/feature` and `experimental`.
  - Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a Pull Request (PR)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.
  - Provide logs for proper debugging.
  - Provide metrics and benchmarks as needed.
  - The Feature should be disabled by default.
  - Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.
  - Add a CHANGELOG entry.
- At least two maintainers must approve feature requirements and related code changes.

Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage.
They should be revisited and moved to the stable stage following the graduation steps as described here.

Locate graduation candidate
Decide if an experimental feature is ready for graduation to the stable stage.
- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature-related code changes were merged.

Provide implementation
If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.
- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

Deprecating a feature

Experimental
An experimental feature deprecates when it graduates to the stable stage.
- Add a deprecation message in the documentation of the experimental feature with a recommendation to use a related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`

- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

Stable
As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:
- Create an issue for tracking
 purposes.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation. e.g. `To be deprecated in <release>.`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead.`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead.`.
- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.
Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

Local standalone cluster

Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
$ ./etcd
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

  ```
  $ ./etcdctl put foo bar
  OK
  ```

If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of `foo`:

```
$ ./etcdctl get foo
bar
```

If `bar` is returned, interaction with the etcd cluster is working as expected.

Local multi-member cluster

Starting a cluster

A `Procfile` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install `goreman` to control Procfile-based applications:

```
$ go install github.com/mattn/goreman@latest
```

The installation will place executables in the $GOPATH/bin. If $GOPATH environment variable is not set, the tool will be installed into the $HOME/go/bin. Make sure that $PATH is set accordingly in your environment.

2. Start a cluster with `goreman` using etcd's stock Procfile:

```
$ goreman -f Procfile start
```

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print the list of members:

```
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```

The list of etcd members is displayed as follows:

```
+------------------+---------+--------+-----------------------+-----------------------+
|       ID         | STATUS  |  NAME  |       PEER ADDRS      |      CLIENT ADDRS     |
+------------------+---------+--------+-----------------------+-----------------------+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380  | http://127.0.0.1:2379  |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
+------------------+---------+--------+-----------------------+-----------------------+
```

2. Store an example key-value pair in the cluster:

```
$ etcdctl put foo bar
OK
```

If OK is printed, storing the key-value pair is successful.

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The `Procfile` lists the properties of the multi-member cluster. For example, consider the member with the process name, `etcd2`.

2. Stop the member:

```
# kill etcd2
$ goreman run stop etcd2
```

3. Store a key:

```
$ etcdctl put key hello
OK
```

4. Retrieve the key that is stored in the previous step:

```
$ etcdctl get key
```

hello
```

5. Retrieve a key from the stopped member:

```
$ etcdctl --endpoints=localhost:22379 get key
```

The command should display an error caused by connection failure:

```
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc = "transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
Error:  grpc:
timed out trying to connect
```

6. Restart the stopped member:

```
$ goreman run restart etcd2
```

7. Get the key from the restarted member:

```
$ etcdctl --endpoints=localhost:22379 get key
hello
```

Restarting the member re-establishs the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: https://etcd.io/docs/latest/op-guide/clustering/
[interacting]: https://etcd.io/docs/latest/dev-guide/interacting_v3/
Branch management

Guide

* New development occurs on the [main branch][main].
* The main branch should always have a green build!
* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *rolling release model* and supports two stable versions of etcd.

Main branch
```

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

Stable branches

All branches with
 the prefix `release-` are considered _stable_ branches.

After every minor release (semver.org), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A _patch_ release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: https://github.com/etcd-io/etcd/tree/main
Issue triage guidelines

Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project maintainers, though the work and responsibilities discussed in this document are created with `etcd` project reviewers and members in mind as these individuals will have
 triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

* [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
* [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
* [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)
* [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
* [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access close the issue.

Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

Support requests

As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](https://github.com/etcd-io/etcd/discussions).

Common
types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <https://github.com/etcd-io/etcd/issues/15945>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.

2. Bug reports or questions about unsupported versions of etcd, for example <https://github.com/etcd-io/etcd/issues/15796>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.

3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors
are not able to reproduce the issue, for example, <https://github.com/etcd-io/etcd/issues/15740>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.

4. General questions that are filed using feature request or bug report issue templates, for example, <https://github.com/etcd-io/etcd/issues/15914>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.

2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).
>
> We are trying to consolidate the channels to which
questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.
>
> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.
>
> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:
>
> 1. [user documentation](https://etcd.io/docs/latest)
> 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)
>
> Again, thanks for using etcd and raising this question.

>
> The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel,
 selecting the appropriate discussion category.

Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

Test flakes

Test flakes
 are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

Label	Notes
area/external	Tracking label for issues raised that are external to etcd.
area/community	
area/raft	
area/clientv3	
area/performance	

area/security	
area/tls	
area/auth	
area/etcdctl	
area/etcdutl	
area/contrib	Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project.
area/documentation	
area/tooling	Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.
area/testing	
area/robustness-testing	

Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

Priority label	What it means	Examples
`priority/critical-urgent`	Maintainers are responsible for making sure that these issues (in their area) are being actively worked oni.e., drop what you're doing. The stuff is burning. These should be fixed before the next release.	user-visible critical bugs in core features broken builds on tier1 supported platforms tests and critical security issues
`priority/important-soon`	Must be staffed and worked on either currently or very soonideally in time for the next release.	
`priority/important-longterm`	Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.	
`priority/backlog`	General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issuesfor example, immediately before a release.	
`priority/awaiting-more-evidence`	Possibly useful, but not yet enough support to actually get it done.	Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up

Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

* **Low Barrier to Entry** - It should be easy for new contributors.

* **Clear** - The task is agreed upon and does not require further discussions in the community.

* **Goldilocks priority** - The priority
should not be so high that a core contributor should do it, but not too low that it isnt useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

*
Solution Explained - The recommended solution is clearly described in the issue.

* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesnt have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does
not lose sight of the issue.

Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.
PR management

Purpose

Speed up PR management.

The `etcd` PRs are listed at https://github.com/etcd-io/etcd/pulls
A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at https://github.com/kubernetes/kubernetes/labels

Following are a few example searches on PR for convenience:
* [Open PRS for milestone etcd-v3.6](https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6)
* [PRs under investigation](https://github.com/etcd-io/etcd/labels/Investigating)

Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test`
 label then please comment on the pull request `/ok-to-test`.

Handle inactive PRs
Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of

these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.
Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the
most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the important
stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over
the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue).

v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](https://github.com/etcd-io/etcd/milestone/38).

Title	Priority	Status	Note
[Support downgrade](https://github.com/etcd-io/etcd/issues/11716)	priority/important-soon	In progress	etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4.
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	priority/important-soon	In progress	This task will be covered in both 3.6 and 3.7.
[Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)	priority/important-soon	Not started	etcd 3.6.0 will depends on raft 3.6.0
[Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)	priority/important-soon	Not started	etcd 3.6.0 will depends on bbolt 1.4.0
[Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)	priority/important-longterm	In progress	It provides clearer APIs, and can also work around the stalled writes issue
[Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[Deprecate grpc-gateway or bump it](https://github.com/etcd-io/etcd/issues/14499)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509)	priority/important-longterm	Completed	It's important to diagnose bbolt issues

| [bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370) | priority/important-longterm | Completed | Surgery commands are important for fixing corrupted db files |
| [Evaluate and (Gradulate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292) | priority/backlog | Not started | This task will be covered in both 3.6 and 3.7. |

v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

Title	Priority	Note
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	P0	Finish the remaining tasks 3.7.
[Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247)	P1	to be investigated & discussed
[Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291)	P1	It should improve the performance
[bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422)	P2	It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed.
[Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	P2	Finish the remaining tasks 3.7.

Backlog (future releases)

Title	Priority	Note
[Remove the dependency on grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)		
[Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533)		
[Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)		
[Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)		
[Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)		
[bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)		
[raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)		

Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

Release management

The following pool of release candidates manages the release of each etcd major/minor version as well as manages patches
to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [@ahrtr](https://github.com/ahrtr)
- James Blair [@jmhbnz](https://github.com/jmhbnz)
- Marek Siarkowicz [@serathius](https://github.com/serathius)
- Sahdev Zala [@spzala](https://github.com/spzala)
- Wenjia Zhang [@wenjiaswe](https://github.com/wenjiaswe)

All release version numbers follow the format of [semantic versioning 2.0.0](http://semver.org/).

Major, minor version release, or its pre-release

- Ensure
 the relevant [milestone](https://github.com/etcd-io/etcd/milestones) on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest [upgrade documentation](https://etcd.io/docs/next/upgrades) is available.
- Bump [hardcoded MinClusterVerion in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29), if necessary.
- Add feature capability maps for the new version, if necessary.

Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherrypick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). The k8s infra cherry pick robot `/cherrypick <branch>` PR chatops command may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported
 to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put `[GH XXXX]` at the head of the change line to reference the Pull Request that introduces the change. Moreover, add a link on it to jump to the Pull Request.
- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs (>=7.5).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

Release guide

Prerequisites

There are some
 prerequisites, which should be done before the release process. These are one-time operations,
which don't need to be executed before releasing each version.
1. Generate a GPG key and add it to your GitHub account. Refer to the links on
[settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
   - Ensure the Golang version matches the version defined in `.go-version` file.
   - Ensure non-privileged users can run docker commands, refer to the [Linux
postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
   - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil_install](https://cloud.google.com/storage/docs/gsutil_install). When asked about
cloud project to use, pick `etcd-development`.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-
registry/docs/advanced-authentication).
  - `gcloud
 auth login`
  - `gcloud auth configure-docker`
5. Install gh, refer to [GitHub's documentation](https://github.com/cli/cli#installation). Ensure that running
  `gh auth login` succeeds for the GitHub account you use to contribute to etcd,
  and that `gh auth status` has a clean exit and doesn't show any issues.

Release steps

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2. Raise a `kubernetes/org` pull request to temporarily elevate permissions for the GitHub release team.
3. Once permissions are elevated, temporarily relax [branch protections](https://github.com/etcd-
io/etcd/settings/branches) to allow pushing changes directly to `release-*` branches in GitHub.
4. Verify you can pass the authentication to the image registries,
  - `docker login gcr.io`
  - `docker login quay.io`
    - If the release person doesn't have access to 1password, one of the owners (@ahrtr, @ivanvc, @jmhbnz,
@serathius) needs
 to share the password with them per [this guide](https://support.1password.com/share-items/). See rough steps
below,
      - [Sign in](https://team-etcd.1password.com/home) to your account on 1password.com.
      - Click `Your Vault Items` on the right side.
      - Select `Password of quay.io`.
      - Click `Share` on the top right, and set expiration as `1 hour` and only available to the release person using

his/her email.
    - Click `Copy Link` then send the link to the release person via slack or email.
5. Clone the etcd repository and checkout the target branch,
  - `git clone --branch release-3.X git@github.com:etcd-io/etcd.git`
6. Run the release script under the repository's root directory, replacing `${VERSION}` with a value without the `v` prefix, i.e. `3.5.13`.
  - `DRY_RUN=false ./scripts/release.sh ${VERSION}`
  - **NOTE:** When doing a pre-release (i.e., a version from the main branch, 3.6.0-alpha.2), you will need to explicitly set the branch to main:

  ```
    DRY_RUN=false BRANCH=main ./scripts/release.sh ${VERSION}
    ```

  It generates all release binaries under the directory `/tmp/etcd-release-${VERSION}/etcd/release/` and images. Binaries are pushed to the Google Cloud bucket
  under project `etcd-development`, and images are pushed to `quay.io` and `gcr.io`.
7. Publish the release page on GitHub
  - Open the **draft** release URL shown by the release script
  - Click the pen button at the top right to edit the release
  - Review that it looks correct, reviewing that the bottom checkboxes are checked depending on the
    release version (v3.4 no checkboxes, v3.5 has the set as latest release checkbox checked,
    v3.6 has the set as pre-release checkbox checked)
  - Then, publish the release
8. Announce to the etcd-dev googlegroup

  Follow the format of previous release emails sent to etcd-dev@googlegroups.com, see an example below. After sending out the email, ask one of the mailing list maintainers to approve the
 email from the pending list. Additionally, label the release email as `Release`.

```text
Hello,

etcd v3.4.30 is now public!

https://github.com/etcd-io/etcd/releases/tag/v3.4.30

Thanks to everyone who contributed to the release!

etcd team
```

9. Update the changelog to reflect the correct release date.
10. Paste the release link to the issue raised in Step 1 and close the issue.
11. Restore standard branch protection settings and raise a follow-up `kubernetes/org` pull request to return to least privilege permissions.
12. Crease a new stable branch through `git push origin release-${VERSION_MAJOR}.${VERSION_MINOR}` if this is a new major or minor stable release.

13. Re-generate a new password for quay.io if needed (e.g. shared to a contributor who isn't in the release team, and we should rotate the password at least once every 3 months).

Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd release images to `quay.io` or `gcr.io`. If this occurs, it is known to be safe to rerun the release script command appending the `--no-upload` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported). Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig` and revert to signing via GPG to perform etcd releases.
Golang modules

The etcd project (since version 3.5) is organized into multiple
[golang modules](https://golang.org/ref/mod) hosted in a [single repository](https://golang.org/ref/mod#vcs-dir).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions
(like protos & proto-generated libraries) that defines communication protocol
between etcd clients and servers.

- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd
without being specific to etcd itself. A package belongs here
only if it could possibly be moved out into its own repository in the future.
Please avoid adding here code that has a lot of dependencies on its own, as
they automatically become dependencies of the client library
(that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over
the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**
- implementation of distributed consensus
protocol. Should have no etcd specific code. Hosted in a separate repository:
https://github.com/etcd-io/raft.

- **go.etcd.io/etcd/server/v3** - etcd implementation.
The code in this package is internal to etcd and should not be consumed
by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.
  Notice: All unit tests (fast and not requiring cross-module dependencies)
  should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.
  Hosted in a separate repository: https://github.com/etcd-io/bbolt.

Operations

1. All etcd modules should be released in the same versions, e.g.
   `go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.

   The consistent updating of versions can be performed using:
   ```shell script
   % DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
   ```
2. The released modules should be tagged according to https://golang.org/ref/mod#vcs-version rules,
   i.e. each module should get its own tag.
   The tagging can be performed using:
   ```shell script
   % DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
   ```

3. All etcd modules should depend on the same versions of underlying dependencies.
   This can be verified using:
   ```shell script
   % PASSES="dep" ./test.sh
   ```

4. The go.mod files must not contain dependencies not being used and must
   conform to `go mod tidy` format.
   This is being verified by:
   ```
   % PASSES="mod_tidy" ./test.sh
   ```

5. To trigger actions across all modules (e.g. auto-format all files), please
   use/expand the following script:
   ```shell script
   % ./scripts/fix.sh
   ```

###

Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:
- Splitting etcdmigrate/etcdadm out of etcdctl binary.
  Thanks to this etcdctl would become clearly a command-line wrapper
  around network client API,
  while etcdmigrate/etcdadm would support direct physical operations on the
  etcd storage files.
- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code
  so carries additional risk & dependencies.
- Deprecation of support for v2 protocol.

Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with
minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.

- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

Frequently asked questions

How to get a stack trace

```bash
$ kill -QUIT $PID
```

How to get the etcd version

```bash
$ etcd --version
```

How to get etcd configuration and log when it runs as systemd service etcd2.service

```bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```

Due to an upstream systemd bug, journald
 may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: https://github.com/etcd-io/etcd/issues/new
[filing-good-bugs]: http://fantasai.inkedblade.net/style/talks/filing-good-bugs/
Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

Role	Responsibilities	Requirements	Defined by
Member	Active contributor in the community	Sponsored by 2 reviewers and multiple contributions	etcd GitHub org member
Reviewer	Review contributions from other members	History of review and authorship	[OWNERS] file reviewer entry
Maintainer	Set direction and priorities for the project	Demonstrated responsibility and excellent technical judgement	[OWNERS] file approver entry

New contributors

New contributors should be welcomed to the community by existing members,
helped with
 PR workflow, and directed to relevant documentation and
communication channels.

Established community members

Established community members are expected to demonstrate their adherence to the principles in this document, familiarity with project organization, roles, policies, procedures, conventions, etc., and technical and/or writing ability. Role-specific expectations, responsibilities, and requirements are enumerated below.

Member

Members are continuously active contributors to the community. They can have issues and PRs assigned to them. Members are expected to remain active contributors to the community.

Defined by: Member of the etcd GitHub organization.

Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **merged**.
  - Filing or commenting on issues on GitHub
  - Contributing to community discussions (e.g. meetings, Slack, email discussion forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)
- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well-tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

Note: Members who frequently contribute code are expected to proactively perform code reviews and work towards becoming a *reviewer*.

Reviewers

Reviewers are contributors who have demonstrated greater skill in
reviewing the code from other contributors. They are knowledgeable about both
the codebase and software engineering principles. Their LGTM counts towards
merging a code change into the project. A reviewer is generally on the ladder towards
maintainership.

Defined by: *reviewers* entry in the [OWNERS] file.

Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions
- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

Maintainers

Maintainers are first and foremost contributors who have shown they
are committed to the long-term success of a project. Maintainership is about building
trust with the current maintainers and being a person that they can
depend on to make decisions in the best interest of the project in a consistent
manner.

Defined by: *approvers* entry in the [OWNERS] file.

Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals

  - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in the designs and implementation of PRs
- Directly contributed to the project through implementation and/or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
- To become a maintainer send an email with your candidacy to etcd-maintainers-private@googlegroups.com
  - Ensure your sponsors are @mentioned in the email
  - Include a list of contributions representative of your work on the project.
  -
 Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.
- With your membership approved you are expected to:
 - Open a PR and add an entry to the [OWNERS] file
 - Subscribe to etcd-maintainers@googlegroups.com and etcd-maintainers-private@googlegroups.com
 - Request to join [etcd-maintainer teams of etcd organization of GitHub](https://github.com/orgs/etcd-io/teams/maintainers-etcd)
 - Request to join the private slack channel for etcd maintainers on [kubernetes slack](http://slack.kubernetes.io/)
 - Request access to etcd-development GCP project where we publish releases
 - Request access to passwords shared between maintainers

Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities
- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and
 release process]
- Ensure the continued health of the project
  - Adequate test coverage to confidently release
  - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

Retiring

Life priorities, interests, and passions can change. Maintainers can retire and
move to [emeritus maintainers]. If a maintainer needs to step down, they should
inform other maintainers and, if possible, help find someone to pick up the related
work. At the very least, ensure the related work can be continued. Afterward,
they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months,
they can be removed by other maintainers. In that case, the inactive maintainer will
be first notified via an email. If the situation doesn't improve, they will be
removed.
 If an emeritus maintainer wants to regain an active role, they can do
so by renewing their contributions. Active maintainers should welcome such a move.

Retiring other maintainers or regaining the status should require the approval
of at least two active maintainers.

Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

[OWNERS]: /OWNERS
[contributor guide]: /CONTRIBUTING.md
[membership nomination]: https://github.com/kubernetes/org/issues/new?assignees=&labels=area%2Fgithub-membership&projects=&template=membership.yml&title=REQUEST%3A+New+membership+for+%3Cyour-GH-handle%3E
[Kubernetes community membership]: https://github.com/kubernetes/community/blob/master/community-membership.md
[emeritus maintainers]: /README.md#etcd-emeritus-maintainers
[security disclosure and release process]: /security/README.md
[two-factor authentication]: https://docs.github.com/en/authentication/securing-your-account-with-two-factor-authentication-2fa/about-two-factor-authentication

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limitations under the License.
Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *levels*. A log message's level is determined according to these conventions:

* Debug: Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.
* Examples:
  * Send a normal message to a remote peer
  * Write a log entry to disk

* Info: Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.
 * Examples:
   * Startup configuration
   * Start to do a snapshot

* Warning: (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.
 * Examples:
   * Failure to send a raft message to a remote peer
   * Failure to receive heartbeat message within the configured election
 timeout

* Error: Data has been lost, a request has failed for a bad reason, or a required resource has been lost.
 * Examples:
   * Failure to allocate disk space for WAL

* Panic: Unrecoverable or unexpected error situation that requires stopping execution.
 * Examples:
   * Failure to create the database

* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.
 * Examples:
   * Failure to find the data directory
   * Failure to run a test function

[zap]: https://github.com/uber-go/zap
Dependency management

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Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,

see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).
Usually, human intervention is required
each time when dependabot automatically opens some PRs to bump dependencies.
Please see the guidance below.

Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:
if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then
it doesn't matter to bump which module first. For
example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency
in the following order,

- go.etcd.io/etcd/pkg/v3
- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <https://etcd.io/docs/next/dev-internal/modules>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```bash
cd ${ETCD_ROOT_DIR}/etcdctl
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```bash
git
 add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example,
you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

Troubleshooting

In an event of bumping the version of protoc, protoc plugins or grpc-gateway, it might change `*.proto` file which can result in the following error:

```bash
[0;31mFAIL: 'genproto' FAILED at Wed Jul 31 07:09:08 UTC 2024
make: *** [Makefile:134: verify-genproto] Error 255
```

To fix the above error, run the following script from the root of etcd repository:

```bash
./scripts/genproto.sh
```

Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If
 an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd)
which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't
bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should
try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we
should fix the issue and ensure all modules depend on the same version of the
dependency.

Known incompatible dependency updates

arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.
Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),
and everyone is welcome to participate; you just need to register your name in the worksheet.

Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to
execute it for 3.4.

Golang versions

The etcd project aims to maintain a development branch that
is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations, performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment by editing `.go-version` and running `make fix`.
4. Run performance benchmarks locally to compare before and after.

5. Raise a pull request for the changes, for example, <https://github.com/etcd-io/etcd/pull/16394>.

Stable etcd release branches will be maintained
 to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release
policy](https://go.dev/doc/devel/release).

For an example of how to update etcd to a new patch release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16343> and the linked pull requests.

References:

- <https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>

Core dependencies mappings

[bbolt](https://github.com/etcd-io/bbolt) and [raft](https://github.com/etcd-io/raft) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x (`main` branch) depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any
external raft module. We moved raft into [a separate repository](https://github.com/etcd-io/raft) starting
 from 3.6 (`main` branch), and the first raft
release will be v3.6.0, so etcd 3.6.x will depend on raft 3.6.x.

Please see the table below:

etcd versions	bbolt versions	raft versions
3.4.x	v1.3.x	N/A
3.5.x	v1.3.x	N/A
3.6.x	v1.4.x	v3.6.x

1.1188 etcd-api 3.6.4

1.1188.1 Available under license :

Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:
- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
  - Feature-related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a stable future.

Stable

A stable feature is characterized as below:
- Supported as part of the supported releases of etcd.
-
 May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following the feature deprecation policy.

Development Guidelines

Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.
- Open an issue
  - It must provide a clear need for the proposed feature.
  - It should list development work items as checkboxes. There must be one work item towards future graduation to a stable future.
  - Label the issue with `type/feature` and `experimental`.
  - Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a Pull Request (PR)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.
  - Provide logs for proper debugging.
  - Provide metrics and benchmarks as needed.
  - The Feature should be disabled by default.
  - Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.

- Add a CHANGELOG entry.
- At least two maintainers must approve feature requirements and related code changes.

Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage.
They should be revisited and moved to the stable stage following the graduation steps as described here.

Locate graduation candidate
Decide if an experimental feature is ready for graduation to the stable stage.
- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature-related code changes were merged.

Provide implementation
If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.
- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation
policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

Deprecating a feature

Experimental
An experimental feature deprecates when it graduates to the stable stage.
- Add a deprecation message in the documentation of the experimental feature with a recommendation to use a related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`
- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

Stable
As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:
- Create an issue for tracking
purposes.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation. e.g. `To be deprecated in <release>.`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead.`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead.`.

- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.
Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

Local standalone cluster

Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
$ ./etcd
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

   ```
   $ ./etcdctl put foo bar
   OK
   ```

   If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of `foo`:

   ```
   $ ./etcdctl get foo
   bar
   ```

   If `bar` is returned, interaction with the etcd
cluster is working as expected.

Local multi-member cluster

Starting a cluster

A `Procfile` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install `goreman` to control Procfile-based applications:

```
$ go install github.com/mattn/goreman@latest
```

The installation will place executables in the $GOPATH/bin. If $GOPATH environment variable is not set, the tool will be installed into the $HOME/go/bin. Make sure that $PATH is set accordingly in your environment.

2. Start a cluster with `goreman` using etcd's stock Procfile:

```
$ goreman -f Procfile start
```

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print
the list of members:

```
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```

The list of etcd members is displayed as follows:

```
+------------------+---------+--------+-----------------------+-----------------------+
|       ID         | STATUS  |  NAME  |       PEER ADDRS      |      CLIENT ADDRS     |
+------------------+---------+--------+-----------------------+-----------------------+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380  | http://127.0.0.1:2379  |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
+------------------+---------+--------+-----------------------+-----------------------+
```

2. Store an example key-value pair in the cluster:

```
$ etcdctl put foo bar
OK
```

If OK is printed, storing the key-value pair is successful.

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The `Procfile` lists the properties of the multi-member cluster. For example, consider the member with the process name, `etcd2`.

2. Stop the member:

```
# kill etcd2
$ goreman run stop etcd2
```

3. Store a key:

```
$ etcdctl put key hello
OK
```

4. Retrieve the key that is stored in the previous step:

```
$ etcdctl get key
hello
```

5. Retrieve a key from the stopped member:

```
$ etcdctl --endpoints=localhost:22379 get key
```

The command should display an error caused by connection failure:

```
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc =
```

"transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
  Error: grpc:
 timed out trying to connect
  ```

6. Restart the stopped member:

  ```
  $ goreman run restart etcd2
  ```

7. Get the key from the restarted member:

  ```
  $ etcdctl --endpoints=localhost:22379 get key
  hello
  ```

  Restarting the member re-establishs the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: https://etcd.io/docs/latest/op-guide/clustering/
[interacting]: https://etcd.io/docs/latest/dev-guide/interacting_v3/
Branch management

Guide

* New development occurs on the [main branch][main].
* The main branch should always have a green build!
* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *rolling release model* and supports two stable versions of etcd.

Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

Stable branches

All branches with
  ```

the prefix `release-` are considered _stable_ branches.

After every minor release (semver.org), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A _patch_ release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: https://github.com/etcd-io/etcd/tree/main
Issue triage guidelines

Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project maintainers, though the work and responsibilities discussed in this document are created with `etcd` project reviewers and members in mind as these individuals will have
triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

* [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
* [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
* [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)
* [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
* [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

##
Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members
group to request a member with triage access close the issue.

Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

Support requests

As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](https://github.com/etcd-io/etcd/discussions).

Common
types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <https://github.com/etcd-io/etcd/issues/15945>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.

2. Bug reports or questions about unsupported versions of etcd, for example <https://github.com/etcd-io/etcd/issues/15796>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not

make the effort to run a supported version of etcd or ensure their version is patched.

3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors are not able to reproduce the issue, for example, <https://github.com/etcd-io/etcd/issues/15740>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.

4. General questions that are filed using feature request or bug report issue templates, for example, <https://github.com/etcd-io/etcd/issues/15914>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.

2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).
>
> We are trying to consolidate the channels to which questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.
>
> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.
>
> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:
>
> 1. [user documentation](https://etcd.io/docs/latest)
> 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)
>
> Again, thanks for using etcd and raising this question.
>
> The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel, selecting the appropriate discussion category.

Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial

issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

Test flakes

Test flakes
are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

Label	Notes
area/external	Tracking label for issues raised that are external to etcd.
area/community	
area/raft	
area/clientv3	
area/performance	
area/security	
area/tls	
area/auth	
area/etcdctl	
area/etcdutl	
area/contrib	Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project.
area/documentation	
area/tooling	Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.
area/testing	

| area/robustness-testing | |

Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

Priority label	What it means	Examples
`priority/critical-urgent`
Maintainers are responsible for making sure that these issues (in their area) are being actively worked oni.e., drop what you're doing. The stuff is burning. These should be fixed before the next release.	user-visible critical bugs in core features broken builds on tier1 supported platforms tests and critical security issues
`priority/important-soon`	Must be staffed and worked on either currently or very soonideally in time for the next release.	
`priority/important-longterm`	Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.	
`priority/backlog`	General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issuesfor example, immediately before a release.	
`priority/awaiting-more-evidence`
Possibly useful, but not yet enough support to actually get it done.	Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up

Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

* **Low Barrier to Entry** - It should be easy for new contributors.

* **Clear** - The task is agreed upon and does not require further discussions in the community.

* **Goldilocks priority** - The priority
 should not be so high that a core contributor should do it, but not too low that it isnt useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an

eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

* **Solution Explained** - The recommended solution is clearly described in the issue.

* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesnt have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does not lose sight of the issue.

Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.

PR management

Purpose

Speed up PR management.

The `etcd` PRs are listed at https://github.com/etcd-io/etcd/pulls
A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at https://github.com/kubernetes/kubernetes/labels

Following are a few example searches on PR for convenience:
* [Open PRS for milestone etcd-v3.6](https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6)
* [PRs under investigation](https://github.com/etcd-io/etcd/labels/Investigating)

Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test`
label then please comment on the pull request `/ok-to-test`.

Handle inactive PRs
Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.
Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the
most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the important
stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over
the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue).

v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](https://github.com/etcd-io/etcd/milestone/38).

Title	Priority	Status	Note
[Support downgrade](https://github.com/etcd-io/etcd/issues/11716)	priority/important-soon	In progress	etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4.
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	priority/important-soon	In progress	This task will be covered in both 3.6 and 3.7.
[Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)	priority/important-soon	Not started	etcd 3.6.0 will depends on raft 3.6.0
[Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)	priority/important-soon	Not started	etcd 3.6.0 will depends on bbolt 1.4.0
[Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)	priority/important-longterm	In progress	It provides clearer APIs, and can also work around the stalled writes issue
[Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[Deprecate grpc-gateway or bump it](https://github.com/etcd-io/etcd/issues/14499)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509)	priority/important-longterm	Completed	It's important to diagnose bbolt issues
[bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370)	priority/important-longterm	Completed	Surgery commands are important for fixing corrupted db files
[Evaluate and (Gradulate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	priority/backlog	Not started	This task will be covered in both 3.6 and 3.7.

v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

| Title | Priority | Note |

|
|---|---|---|
| [StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913) | P0 | Finish the remaining tasks 3.7. |
| [Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247) | P1 | to be investigated & discussed |
| [Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291) | P1 | It should improve the performance |
| [bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422) | P2 | It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed. |
| [Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292) | P2 | Finish the remaining tasks 3.7. |

Backlog (future releases)

Title	Priority	Note
[Remove the dependency on grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)		
[Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533)		
[Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)		
[Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)		
[Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)		
[bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)		
[raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)		

Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

Release management

The following pool of release candidates manages the release of each etcd major/minor version as well as manages patches
to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [@ahrtr](https://github.com/ahrtr)
- James Blair [@jmhbnz](https://github.com/jmhbnz)
- Marek Siarkowicz [@serathius](https://github.com/serathius)
- Sahdev Zala [@spzala](https://github.com/spzala)
- Wenjia Zhang [@wenjiaswe](https://github.com/wenjiaswe)

All release version numbers follow the format of [semantic versioning 2.0.0](http://semver.org/).

Major, minor version release, or its pre-release

- Ensure
 the relevant [milestone](https://github.com/etcd-io/etcd/milestones) on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest [upgrade documentation](https://etcd.io/docs/next/upgrades) is available.
- Bump [hardcoded MinClusterVerion in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29), if necessary.
- Add feature capability maps for the new version, if necessary.

Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherrypick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). The k8s infra cherry pick robot `/cherrypick <branch>` PR chatops command may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported
 to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put `[GH XXXX]` at the head of the change line to reference the Pull Request that introduces the change. Moreover, add a link on it to jump to the Pull Request.
- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs (>=7.5).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

Release guide

Prerequisites

There are some

prerequisites, which should be done before the release process. These are one-time operations, which don't need to be executed before releasing each version.

1. Generate a GPG key and add it to your GitHub account. Refer to the links on [settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
   - Ensure the Golang version matches the version defined in `.go-version` file.
   - Ensure non-privileged users can run docker commands, refer to the [Linux postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
   - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil_install](https://cloud.google.com/storage/docs/gsutil_install). When asked about cloud project to use, pick `etcd-development`.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-registry/docs/advanced-authentication).
   - `gcloud auth login`
   - `gcloud auth configure-docker`
5. Install gh, refer to [GitHub's documentation](https://github.com/cli/cli#installation). Ensure that running `gh auth login` succeeds for the GitHub account you use to contribute to etcd, and that `gh auth status` has a clean exit and doesn't show any issues.

Release steps

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2. Raise a `kubernetes/org` pull request to temporarily elevate permissions for the GitHub release team.
3. Once permissions are elevated, temporarily relax [branch protections](https://github.com/etcd-io/etcd/settings/branches) to allow pushing changes directly to `release-*` branches in GitHub.
4. Verify you can pass the authentication to the image registries,
   - `docker login gcr.io`
   - `docker login quay.io`
   - If the release person doesn't have access to 1password, one of the owners (@ahrtr, @ivanvc, @jmhbnz, @serathius) needs to share the password with them per [this guide](https://support.1password.com/share-items/). See rough steps below,
     - [Sign in](https://team-etcd.1password.com/home) to your account on 1password.com.
     - Click `Your Vault Items` on the right side.
     - Select `Password of quay.io`.
     - Click `Share` on the top right, and set expiration as `1 hour` and only available to the release person using his/her email.
     - Click `Copy Link` then send the link to the release person via slack or email.
5. Clone the etcd repository and checkout the target branch,
   - `git clone --branch release-3.X git@github.com:etcd-io/etcd.git`
6. Run the release script under the repository's root directory, replacing `${VERSION}` with a value without the `v` prefix, i.e. `3.5.13`.
   - `DRY_RUN=false ./scripts/release.sh ${VERSION}`
   - **NOTE:** When doing a pre-release (i.e., a version from the main branch, 3.6.0-alpha.2), you will need to explicitly set the branch to main:

```
  DRY_RUN=false BRANCH=main ./scripts/release.sh ${VERSION}
  ```

  It generates all release binaries under the directory `/tmp/etcd-release-${VERSION}/etcd/release/` and images. Binaries are pushed to the Google Cloud bucket
  under project `etcd-development`, and images are pushed to `quay.io` and `gcr.io`.
7. Publish the release page on GitHub
  - Open the **draft** release URL shown by the release script
  - Click the pen button at the top right to edit the release
  - Review that it looks correct, reviewing that the bottom checkboxes are checked depending on the release version (v3.4 no checkboxes, v3.5 has the set as latest release checkbox checked, v3.6 has the set as pre-release checkbox checked)
  - Then, publish the release
8. Announce to the etcd-dev googlegroup

  Follow the format of previous release emails sent to etcd-dev@googlegroups.com, see an example below. After sending out the email, ask one of the mailing list maintainers to approve the
 email from the pending list. Additionally, label the release email as `Release`.

```text
Hello,

etcd v3.4.30 is now public!

https://github.com/etcd-io/etcd/releases/tag/v3.4.30

Thanks to everyone who contributed to the release!

etcd team
```

9. Update the changelog to reflect the correct release date.
10. Paste the release link to the issue raised in Step 1 and close the issue.
11. Restore standard branch protection settings and raise a follow-up `kubernetes/org` pull request to return to least privilege permissions.
12. Crease a new stable branch through `git push origin release-${VERSION_MAJOR}.${VERSION_MINOR}` if this is a new major or minor stable release.
13. Re-generate a new password for quay.io if needed (e.g. shared to a contributor who isn't in the release team, and we should rotate the password at least once every 3 months).

Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd

release images to `quay.io` or `gcr.io`. If this occurs, it is known to be safe to rerun the release script command appending the `--no-upload` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported). Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig` and revert to signing via GPG to perform etcd releases.
Golang modules

The etcd project (since version 3.5) is organized into multiple
[golang modules](https://golang.org/ref/mod) hosted in a [single repository](https://golang.org/ref/mod#vcs-dir).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions
(like protos & proto-generated libraries) that defines communication protocol
between etcd clients and servers.

- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd
without being specific to etcd itself. A package belongs here
only if it could possibly be moved out into its own repository in the future.
Please avoid adding here code that has a lot of dependencies on its own, as
they automatically become dependencies of the client library
(that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over
the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**
- implementation of distributed consensus
protocol. Should have no etcd specific code. Hosted in a separate repository:
https://github.com/etcd-io/raft.

- **go.etcd.io/etcd/server/v3** - etcd implementation.
The code in this package is internal to etcd and should not be consumed
by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.
  Notice: All unit tests (fast and not requiring cross-module dependencies)
  should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.
  Hosted in a separate repository: https://github.com/etcd-io/bbolt.

Operations

1. All etcd modules should be released in the same versions, e.g.
  `go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.

   The consistent updating of versions can be performed using:
  ```shell script
  % DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
  ```
2. The released modules should be tagged according to https://golang.org/ref/mod#vcs-version rules,
  i.e. each module should get its own tag.
  The tagging can be performed using:
  ```shell script
  % DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
  ```

3. All etcd modules should depend on the same versions of underlying dependencies.
  This can be verified using:
  ```shell script
  % PASSES="dep" ./test.sh
  ```

4. The go.mod files must not contain dependencies not being used and must
  conform to `go mod tidy` format.
  This is being verified by:
  ```
  % PASSES="mod_tidy" ./test.sh
  ```

5. To trigger actions across all modules (e.g. auto-format all files), please
  use/expand the following script:
  ```shell script
  % ./scripts/fix.sh
  ```

Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:
 - Splitting etcdmigrate/etcdadm out of etcdctl binary.
   Thanks to this etcdctl would become clearly a command-line wrapper
   around network client API,
   while etcdmigrate/etcdadm would support direct physical operations on the

etcd storage files.
- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code
so carries additional risk & dependencies.
- Deprecation of support for v2 protocol.

Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with
minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.

- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

Frequently asked questions

How to get a stack trace

```bash
$ kill -QUIT $PID
```

How to get the etcd version

```bash
$ etcd --version
```

How to get etcd configuration and log when it runs as systemd service etcd2.service

```bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```

Due to an upstream systemd bug, journald
may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: https://github.com/etcd-io/etcd/issues/new
[filing-good-bugs]: http://fantasai.inkedblade.net/style/talks/filing-good-bugs/
Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

Role	Responsibilities	Requirements	Defined by
Member	Active contributor in the community	Sponsored by 2 reviewers and multiple contributions	etcd GitHub org member
Reviewer	Review contributions from other members	History of review and authorship	[OWNERS] file reviewer entry
Maintainer	Set direction and priorities for the project	Demonstrated responsibility and excellent technical judgement	[OWNERS] file approver entry

New contributors

New contributors should be welcomed to the community by existing members,
helped with
PR workflow, and directed to relevant documentation and
communication channels.

Established community members

Established community members are expected to demonstrate their adherence to the
principles in this document, familiarity with project organization, roles,
policies, procedures, conventions, etc., and technical and/or writing ability.
Role-specific expectations, responsibilities, and requirements are enumerated
below.

Member

Members are continuously active contributors to the community. They can have
issues and PRs assigned to them. Members are expected to remain active
contributors to the community.

Defined by: Member of the etcd GitHub organization.

Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **merged**.
  - Filing or commenting on issues on
 GitHub
  - Contributing to community discussions (e.g. meetings, Slack, email discussion
    forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)
- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying
 the maintainers.

Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well-tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

Note: Members who frequently contribute code are expected to proactively
perform code reviews and work towards becoming a *reviewer*.

Reviewers

Reviewers are contributors who have demonstrated greater skill in
reviewing the code from other contributors. They are knowledgeable about both
the codebase and software engineering principles. Their LGTM counts towards
merging a code change into the project. A reviewer is generally on the ladder towards
maintainership.

Defined by: *reviewers* entry in the [OWNERS] file.

Requirements

- member for at least 3 months.

- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions
- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

Maintainers

Maintainers are first and foremost contributors who have shown they are committed to the long-term success of a project. Maintainership is about building trust with the current maintainers and being a person that they can depend on to make decisions in the best interest of the project in a consistent manner.

Defined by: *approvers* entry in the [OWNERS] file.

Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals
  - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in the designs and implementation of PRs
- Directly contributed to the project through implementation and/or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
- To become a maintainer send an email with your candidacy to etcd-maintainers-private@googlegroups.com
  - Ensure your sponsors are @mentioned in the email
  - Include a list of contributions representative of your work on the project.
  - Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.

- With your membership approved you are expected to:
 - Open a PR and add an entry to the [OWNERS] file
 - Subscribe to etcd-maintainers@googlegroups.com and etcd-maintainers-private@googlegroups.com
 - Request to join [etcd-maintainer teams of etcd organization of GitHub](https://github.com/orgs/etcd-io/teams/maintainers-etcd)
 - Request to join the private slack channel for etcd maintainers on [kubernetes slack](http://slack.kubernetes.io/)
 - Request access to etcd-development GCP project where we publish releases
 - Request access to passwords shared between maintainers

Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities
- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and
 release process]
- Ensure the continued health of the project
   - Adequate test coverage to confidently release
   - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

Retiring

Life priorities, interests, and passions can change. Maintainers can retire and
move to [emeritus maintainers]. If a maintainer needs to step down, they should
inform other maintainers and, if possible, help find someone to pick up the related
work. At the very least, ensure the related work can be continued. Afterward,
they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months,
they can be removed by other maintainers. In that case, the inactive maintainer will
be first notified via an email. If the situation doesn't improve, they will be
removed.
 If an emeritus maintainer wants to regain an active role, they can do
so by renewing their contributions. Active maintainers should welcome such a move.
Retiring other maintainers or regaining the status should require the approval
of at least two active maintainers.

Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

[OWNERS]: /OWNERS
[contributor guide]: /CONTRIBUTING.md
[membership nomination]: https://github.com/kubernetes/org/issues/new?assignees=&labels=area%2Fgithub-membership&projects=&template=membership.yml&title=REQUEST%3A+New+membership+for+%3Cyour-GH-

handle%3E
[Kubernetes community membership]: https://github.com/kubernetes/community/blob/master/community-membership.md
[emeritus maintainers]: /README.md#etcd-emeritus-maintainers
[security disclosure and release process]: /security/README.md
[two-factor authentication]: https://docs.github.com/en/authentication/securing-your-account-with-two-factor-authentication-2fa/about-two-factor-authentication

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Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *levels*. A log message's level is determined according to these conventions:

* Debug: Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.
  * Examples:
    * Send a normal message to a remote peer
    * Write a log entry to disk

* Info: Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.
  * Examples:
    * Startup configuration
    * Start to do a snapshot

* Warning: (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.
  * Examples:
    * Failure to send a raft message to a remote peer
    * Failure to receive heartbeat message within the configured election

timeout

* Error: Data has been lost, a request has failed for a bad reason, or a required resource has been lost.
 * Examples:
   * Failure to allocate disk space for WAL

* Panic: Unrecoverable or unexpected error situation that requires stopping execution.
 * Examples:
   * Failure to create the database

* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.
 * Examples:
   * Failure to find the data directory
   * Failure to run a test function

[zap]: https://github.com/uber-go/zap
Dependency management

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Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,
see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).
Usually, human intervention is required
 each time when dependabot automatically opens some PRs to bump dependencies.
Please see the guidance below.

Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)

- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:
if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then
it doesn't matter to bump which module first. For
example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency
in the following order,

- go.etcd.io/etcd/pkg/v3
- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <https://etcd.io/docs/next/dev-internal/modules>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```bash
cd ${ETCD_ROOT_DIR}/etcdctl
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```bash
git
 add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example,
you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

Troubleshooting

In an event of bumping the version of protoc, protoc plugins or grpc-gateway, it might change `*.proto` file which can result in the following error:

```bash
[0;31mFAIL: 'genproto' FAILED at Wed Jul 31 07:09:08 UTC 2024
make: *** [Makefile:134: verify-genproto] Error 255
```

To fix the above error, run the following script from the root of etcd repository:

```bash
./scripts/genproto.sh
```

Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If
 an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd)
which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't
bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should
try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we
should fix the issue and ensure all modules depend on the same version of the
 dependency.

Known incompatible dependency updates

arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.
Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),
and everyone is welcome to participate; you just need to register your name in the worksheet.

Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to
execute it for 3.4.

Golang versions

The etcd project aims to maintain a development branch that
is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations, performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment by editing `.go-version` and running `make fix`.
4. Run performance benchmarks locally to compare before and after.
5. Raise a pull request for the changes, for example, <https://github.com/etcd-io/etcd/pull/16394>.

Stable etcd release branches will be maintained
to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release policy](https://go.dev/doc/devel/release).

For an example of how to update etcd to a new patch release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16343> and the linked pull requests.

References:

- <https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>

Core dependencies mappings

[bbolt](https://github.com/etcd-io/bbolt) and [raft](https://github.com/etcd-io/raft) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x (`main` branch) depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any
external raft module. We moved raft into [a separate repository](https://github.com/etcd-io/raft) starting
 from 3.6 (`main` branch), and the first raft
release will be v3.6.0, so etcd 3.6.x will depend on raft 3.6.x.

Please see the table below:

etcd versions	bbolt versions	raft versions
3.4.x	v1.3.x	N/A
3.5.x	v1.3.x	N/A
3.6.x	v1.4.x	v3.6.x

1.1189 etcd-client-pkg 3.6.4

1.1189.1 Available under license :

Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:
- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
  - Feature-related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a stable future.

Stable

A stable feature is characterized as below:
- Supported as part of the supported releases of etcd.
-
 May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following the feature deprecation policy.

Development Guidelines

Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.
- Open an issue
  - It must provide a clear need for the proposed feature.
  - It should list development work items as checkboxes. There must be one work item towards future graduation to a stable future.
  - Label the issue with `type/feature` and `experimental`.
  - Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a Pull Request (PR)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.
  - Provide logs for proper debugging.
  - Provide metrics and benchmarks as needed.
  - The Feature should be disabled by default.
  - Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.
  - Add a CHANGELOG entry.
- At least two maintainers must approve feature requirements and related code changes.

Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage.
 They should be revisited and moved to the stable stage following the graduation steps as described here.

Locate graduation candidate
Decide if an experimental feature is ready for graduation to the stable stage.
- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search

for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature-related code changes were merged.

Provide implementation
If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.
- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation
 policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

Deprecating a feature

Experimental
An experimental feature deprecates when it graduates to the stable stage.
- Add a deprecation message in the documentation of the experimental feature with a recommendation to use a related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`
- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

Stable
As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:
- Create an issue for tracking
 purposes.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation. e.g. `To be deprecated in <release>.`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead.`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead.`.
- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.
Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

Local standalone cluster

Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
$ ./etcd
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

   ```
   $ ./etcdctl put foo bar
   OK
   ```

   If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of `foo`:

   ```
   $ ./etcdctl get foo
   bar
   ```

   If `bar` is returned, interaction with the etcd
 cluster is working as expected.

Local multi-member cluster

Starting a cluster

A `Procfile` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install `goreman` to control Procfile-based applications:

   ```
   $ go install github.com/mattn/goreman@latest
   ```

```
```

The installation will place executables in the $GOPATH/bin. If $GOPATH environment variable is not set, the tool will be installed into the $HOME/go/bin. Make sure that $PATH is set accordingly in your environment.

2. Start a cluster with `goreman` using etcd's stock Procfile:

```
$ goreman -f Procfile start
```

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print
 the list of members:

```
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```

The list of etcd members is displayed as follows:

```
+------------------+---------+--------+------------------------+------------------------+
|       ID         | STATUS  |  NAME  |       PEER ADDRS       |      CLIENT ADDRS      |
+------------------+---------+--------+------------------------+------------------------+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380  | http://127.0.0.1:2379  |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
+------------------+---------+--------+------------------------+------------------------+
```

2. Store an example key-value pair in the cluster:

```
$ etcdctl put foo bar
OK
```

If OK is printed, storing the key-value pair is successful.

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The `Procfile` lists the properties of the multi-member cluster. For example, consider the member with the process name, `etcd2`.

2. Stop the member:

```
# kill etcd2
$ goreman run stop etcd2
```

3. Store a key:

```
$ etcdctl put key hello
OK
```

4. Retrieve the key that is stored in the previous step:

```
$ etcdctl get key
hello
```

5. Retrieve a key from the stopped member:

```
$ etcdctl --endpoints=localhost:22379 get key
```

The command should display an error caused by connection failure:

```
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc = "transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
Error:  grpc:
timed out trying to connect
```

6. Restart the stopped member:

```
$ goreman run restart etcd2
```

7. Get the key from the restarted member:

```
$ etcdctl --endpoints=localhost:22379 get key
hello
```

Restarting the member re-establishs the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: https://etcd.io/docs/latest/op-guide/clustering/
[interacting]: https://etcd.io/docs/latest/dev-guide/interacting_v3/
Branch management

Guide

* New development occurs on the [main branch][main].
* The main branch should always have a green build!
* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *rolling release model* and supports two stable versions of etcd.

Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

Stable branches

All branches with
 the prefix `release-` are considered _stable_ branches.

After every minor release (semver.org), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A _patch_ release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: https://github.com/etcd-io/etcd/tree/main
Issue triage guidelines

Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project maintainers, though the work and responsibilities discussed in this document are created with `etcd` project reviewers and members in mind as these individuals will have
triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

* [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
* [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
* [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)
* [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
* [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking

purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members
group to request a member with triage access close the issue.

Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

Support requests

As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](https://github.com/etcd-io/etcd/discussions).

Common
types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <https://github.com/etcd-io/etcd/issues/15945>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.

2. Bug reports or questions about unsupported versions of etcd, for example <https://github.com/etcd-io/etcd/issues/15796>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.

3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors
are not able to reproduce the issue, for example, <https://github.com/etcd-io/etcd/issues/15740>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.

4. General questions that are filed using feature request or bug report issue templates, for example, <https://github.com/etcd-io/etcd/issues/15914>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.

2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).
>
> We are trying to consolidate the channels to which questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.
>
> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.
>
> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:
>
> 1. [user documentation](https://etcd.io/docs/latest)
> 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)
>
> Again, thanks for using etcd and raising this question.
>
> The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel, selecting the appropriate discussion category.

Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

Test flakes

Test flakes
are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

Label	Notes
area/external	Tracking label for issues raised that are external to etcd.
area/community	
area/raft	
area/clientv3	
area/performance	
area/security	
area/tls	
area/auth	
area/etcdctl	
area/etcdutl	
area/contrib	Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project.
area/documentation	
area/tooling	Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.
area/testing	
area/robustness-testing	

Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

Priority label	What it means	Examples
`priority/critical-urgent`

Maintainers are responsible for making sure that these issues (in their area) are being actively worked oni.e., drop what you're doing. The stuff is burning. These should be fixed before the next release.	user-visible critical bugs in core features broken builds on tier1 supported platforms tests and critical security issues
`priority/important-soon`	Must be staffed and worked on either currently or very soonideally in time for the next release.	
`priority/important-longterm`	Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.	
`priority/backlog`	General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issuesfor example, immediately before a release.|
`priority/awaiting-more-evidence`
Possibly useful, but not yet enough support to actually get it done.	Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up

Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

* **Low Barrier to Entry** - It should be easy for new contributors.

* **Clear** - The task is agreed upon and does not require further discussions in the community.

* **Goldilocks priority** - The priority
should not be so high that a core contributor should do it, but not too low that it isnt useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

*
 Solution Explained - The recommended solution is clearly described in the issue.

* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesnt have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does not lose sight of the issue.

Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.
PR management

Purpose

Speed up PR management.

The `etcd` PRs are listed at https://github.com/etcd-io/etcd/pulls
A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at https://github.com/kubernetes/kubernetes/labels

Following are a few example searches on PR for convenience:
* [Open PRS for milestone etcd-v3.6](https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6)
* [PRs under investigation](https://github.com/etcd-io/etcd/labels/Investigating)

Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test`
label then please comment on the pull request `/ok-to-test`.

Handle inactive PRs
Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.
Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the
most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the important
stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over
the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue).

v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](https://github.com/etcd-io/etcd/milestone/38).

Title	Priority	Status	Note

[Support downgrade](https://github.com/etcd-io/etcd/issues/11716)	priority/important-soon	In progress	etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4.
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	priority/important-soon	In progress	This task will be covered in both 3.6 and 3.7.
[Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)	priority/important-soon	Not started	etcd 3.6.0 will depends on raft 3.6.0
[Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)	priority/important-soon	Not started	etcd 3.6.0 will depends on bbolt 1.4.0
[Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)	priority/important-longterm	In progress	It provides clearer APIs, and can also work around the stalled writes issue
[Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[Deprecate grpc-gateway or bump it](https://github.com/etcd-io/etcd/issues/14499)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509)	priority/important-longterm	Completed	It's important to diagnose bbolt issues
[bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370)	priority/important-longterm	Completed	Surgery commands are important for fixing corrupted db files
[Evaluate and (Gradulate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	priority/backlog	Not started	This task will be covered in both 3.6 and 3.7.

v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

Title	Priority	Note
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	P0	Finish the remaining tasks 3.7.
[Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247)	P1	to be investigated & discussed
[Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291)	P1	It should improve the performance
[bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422)	P2	It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed.

| [Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292) | P2 | Finish the remaining tasks 3.7. |

Backlog (future releases)

Title	Priority	Note
[Remove the dependency on grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)		
[Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533)		
[Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)		
[Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)		
[Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)		
[bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)		
[raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)		

Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

Release management

The following pool of release candidates manages the release of each etcd major/minor version as well as manages patches
to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [@ahrtr](https://github.com/ahrtr)
- James Blair [@jmhbnz](https://github.com/jmhbnz)
- Marek Siarkowicz [@serathius](https://github.com/serathius)
- Sahdev Zala [@spzala](https://github.com/spzala)
- Wenjia Zhang [@wenjiaswe](https://github.com/wenjiaswe)

All release version numbers follow the format of [semantic versioning 2.0.0](http://semver.org/).

Major, minor version release, or its pre-release

- Ensure the relevant [milestone](https://github.com/etcd-io/etcd/milestones) on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest [upgrade documentation](https://etcd.io/docs/next/upgrades) is available.
- Bump [hardcoded MinClusterVerion in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29), if necessary.
- Add feature capability maps for the new version, if necessary.

Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherrypick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). The k8s infra cherry pick robot `/cherrypick <branch>` PR chatops command may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put `[GH XXXX]` at the head of the change line to reference the Pull Request that introduces the change. Moreover, add a link on it to jump to the Pull Request.
- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs (>=7.5).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

Release guide

Prerequisites

There are some prerequisites, which should be done before the release process. These are one-time operations, which don't need to be executed before releasing each version.

1. Generate a GPG key and add it to your GitHub account. Refer to the links on [settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
   - Ensure the Golang version matches the version defined in `.go-version` file.
   - Ensure non-privileged users can run docker commands, refer to the [Linux postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
   - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil_install](https://cloud.google.com/storage/docs/gsutil_install). When asked about cloud project to use, pick `etcd-development`.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-registry/docs/advanced-authentication).

- `gcloud
auth login`
- `gcloud auth configure-docker`
5. Install gh, refer to [GitHub's documentation](https://github.com/cli/cli#installation). Ensure that running
`gh auth login` succeeds for the GitHub account you use to contribute to etcd,
and that `gh auth status` has a clean exit and doesn't show any issues.

Release steps

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2. Raise a `kubernetes/org` pull request to temporarily elevate permissions for the GitHub release team.
3. Once permissions are elevated, temporarily relax [branch protections](https://github.com/etcd-io/etcd/settings/branches) to allow pushing changes directly to `release-*` branches in GitHub.
4. Verify you can pass the authentication to the image registries,
- `docker login gcr.io`
- `docker login quay.io`
- If the release person doesn't have access to 1password, one of the owners (@ahrtr, @ivanvc, @jmhbnz, @serathius) needs
to share the password with them per [this guide](https://support.1password.com/share-items/). See rough steps below,
- [Sign in](https://team-etcd.1password.com/home) to your account on 1password.com.
- Click `Your Vault Items` on the right side.
- Select `Password of quay.io`.
- Click `Share` on the top right, and set expiration as `1 hour` and only available to the release person using his/her email.
- Click `Copy Link` then send the link to the release person via slack or email.
5. Clone the etcd repository and checkout the target branch,
- `git clone --branch release-3.X git@github.com:etcd-io/etcd.git`
6. Run the release script under the repository's root directory, replacing `${VERSION}` with a value without the `v` prefix, i.e. `3.5.13`.
- `DRY_RUN=false ./scripts/release.sh ${VERSION}`
- **NOTE:** When doing a pre-release (i.e., a version from the main branch, 3.6.0-alpha.2), you will need to explicitly set the branch to main:

```
DRY_RUN=false BRANCH=main ./scripts/release.sh ${VERSION}
```

It generates all release binaries under the directory `/tmp/etcd-release-${VERSION}/etcd/release/` and images. Binaries are pushed to the Google Cloud bucket
under project `etcd-development`, and images are pushed to `quay.io` and `gcr.io`.
7. Publish the release page on GitHub
- Open the **draft** release URL shown by the release script
- Click the pen button at the top right to edit the release
- Review that it looks correct, reviewing that the bottom checkboxes are checked depending on the
release version (v3.4 no checkboxes, v3.5 has the set as latest release checkbox checked,
v3.6 has the set as pre-release checkbox checked)
- Then, publish the release

8. Announce to the etcd-dev googlegroup

Follow the format of previous release emails sent to etcd-dev@googlegroups.com, see an example below. After sending out the email, ask one of the mailing list maintainers to approve the email from the pending list. Additionally, label the release email as `Release`.

```text
Hello,

etcd v3.4.30 is now public!

https://github.com/etcd-io/etcd/releases/tag/v3.4.30

Thanks to everyone who contributed to the release!

etcd team
```

9. Update the changelog to reflect the correct release date.
10. Paste the release link to the issue raised in Step 1 and close the issue.
11. Restore standard branch protection settings and raise a follow-up `kubernetes/org` pull request to return to least privilege permissions.
12. Crease a new stable branch through `git push origin release-${VERSION_MAJOR}.${VERSION_MINOR}` if this is a new major or minor stable release.
13. Re-generate a new password for quay.io if needed (e.g. shared to a contributor who isn't in the release team, and we should rotate the password at least once every 3 months).

Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd release images to `quay.io` or `gcr.io`. If this occurs, it is known to be safe to rerun the release script command appending the `--no-upload` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported). Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig` and revert to signing via GPG to perform etcd releases.
Golang modules

The etcd project (since version 3.5) is organized into multiple [golang modules](https://golang.org/ref/mod) hosted in a [single repository](https://golang.org/ref/mod#vcs-dir).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions
(like protos & proto-generated libraries) that defines communication protocol
between etcd clients and servers.

- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd
without being specific to etcd itself. A package belongs here
only if it could possibly be moved out into its own repository in the future.
Please avoid adding here code that has a lot of dependencies on its own, as
they automatically become dependencies of the client library
(that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over
the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**
- implementation of distributed consensus
protocol. Should have no etcd specific code. Hosted in a separate repository:
https://github.com/etcd-io/raft.

- **go.etcd.io/etcd/server/v3** - etcd implementation.
The code in this package is internal to etcd and should not be consumed
by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.
  Notice: All unit tests (fast and not requiring cross-module dependencies)
  should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.
  Hosted in a separate repository: https://github.com/etcd-io/bbolt.

Operations

1. All etcd modules should be released in the same versions, e.g.
  `go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.

  The consistent updating of versions can be performed using:
  ```shell script
  % DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
  ```
2. The released modules should be tagged according to https://golang.org/ref/mod#vcs-version rules,
  i.e. each module should get its own tag.
  The tagging can be performed using:
  ```shell script
  ```

```
% DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
```

3. All etcd modules should depend on the same versions of underlying dependencies.
   This can be verified using:
   ```shell script
   % PASSES="dep" ./test.sh
   ```

4. The go.mod files must not contain dependencies not being used and must
   conform to `go mod tidy` format.
   This is being verified by:
   ```
   % PASSES="mod_tidy" ./test.sh
   ```

5. To trigger actions across all modules (e.g. auto-format all files), please
   use/expand the following script:
   ```shell script
   % ./scripts/fix.sh
   ```

Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:
- Splitting etcdmigrate/etcdadm out of etcdctl binary.
  Thanks to this etcdctl would become clearly a command-line wrapper
  around network client API,
  while etcdmigrate/etcdadm would support direct physical operations on the
  etcd storage files.
- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code
  so carries additional risk & dependencies.
- Deprecation of support for v2 protocol.

Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is

especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with
 minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.

- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

Frequently asked questions

How to get a stack trace

```bash
$ kill -QUIT $PID
```

How to get the etcd version

```bash
$ etcd --version
```

How to get etcd configuration and log when it runs as systemd service etcd2.service

```bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```

Due to an upstream systemd bug, journald
 may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: https://github.com/etcd-io/etcd/issues/new
[filing-good-bugs]: http://fantasai.inkedblade.net/style/talks/filing-good-bugs/

Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

Role	Responsibilities	Requirements	Defined by
Member	Active contributor in the community	Sponsored by 2 reviewers and multiple contributions	etcd GitHub org member
Reviewer	Review contributions from other members	History of review and authorship	[OWNERS] file reviewer entry
Maintainer	Set direction and priorities for the project	Demonstrated responsibility and excellent technical judgement	[OWNERS] file approver entry

New contributors

New contributors should be welcomed to the community by existing members, helped with PR workflow, and directed to relevant documentation and communication channels.

Established community members

Established community members are expected to demonstrate their adherence to the principles in this document, familiarity with project organization, roles, policies, procedures, conventions, etc., and technical and/or writing ability. Role-specific expectations, responsibilities, and requirements are enumerated below.

Member

Members are continuously active contributors to the community. They can have issues and PRs assigned to them. Members are expected to remain active contributors to the community.

Defined by: Member of the etcd GitHub organization.

Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **merged**.
  - Filing or commenting on issues on GitHub
  - Contributing to community discussions (e.g. meetings, Slack, email discussion forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)

- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well-tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

Note: Members who frequently contribute code are expected to proactively perform code reviews and work towards becoming a *reviewer*.

Reviewers

Reviewers are contributors who have demonstrated greater skill in reviewing the code from other contributors. They are knowledgeable about both the codebase and software engineering principles. Their LGTM counts towards merging a code change into the project. A reviewer is generally on the ladder towards maintainership.

Defined by: *reviewers* entry in the [OWNERS] file.

Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions

- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

Maintainers

Maintainers are first and foremost contributors who have shown they
are committed to the long-term success of a project. Maintainership is about building
trust with the current maintainers and being a person that they can
depend on to make decisions in the best interest of the project in a consistent
manner.

Defined by: *approvers* entry in the [OWNERS] file.

Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals
  - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in the designs and implementation of PRs
- Directly contributed to the project through implementation and/or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
- To become a maintainer send an email with your candidacy to etcd-maintainers-private@googlegroups.com
  - Ensure your sponsors are @mentioned in the email
  - Include a list of contributions representative of your work on the project.
  -
Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.
- With your membership approved you are expected to:
 - Open a PR and add an entry to the [OWNERS] file
 - Subscribe to etcd-maintainers@googlegroups.com and etcd-maintainers-private@googlegroups.com
 - Request to join [etcd-maintainer teams of etcd organization of GitHub](https://github.com/orgs/etcd-io/teams/maintainers-etcd)
 - Request to join the private slack channel for etcd maintainers on [kubernetes slack](http://slack.kubernetes.io/)
 - Request access to etcd-development GCP project where we publish releases
 - Request access to passwords shared between maintainers

Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities

- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and release process]
- Ensure the continued health of the project
  - Adequate test coverage to confidently release
  - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

Retiring

Life priorities, interests, and passions can change. Maintainers can retire and move to [emeritus maintainers]. If a maintainer needs to step down, they should inform other maintainers and, if possible, help find someone to pick up the related work. At the very least, ensure the related work can be continued. Afterward, they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months, they can be removed by other maintainers. In that case, the inactive maintainer will be first notified via an email. If the situation doesn't improve, they will be removed.
If an emeritus maintainer wants to regain an active role, they can do so by renewing their contributions. Active maintainers should welcome such a move. Retiring other maintainers or regaining the status should require the approval of at least two active maintainers.

Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

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[Kubernetes community membership]: https://github.com/kubernetes/community/blob/master/community-membership.md
[emeritus maintainers]: /README.md#etcd-emeritus-maintainers
[security disclosure and release process]: /security/README.md
[two-factor authentication]: https://docs.github.com/en/authentication/securing-your-account-with-two-factor-authentication-2fa/about-two-factor-authentication

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Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *levels*. A log message's level is determined according to these conventions:

* Debug: Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.
 * Examples:
  * Send a normal message to a remote peer
  * Write a log entry to disk

* Info: Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.
 * Examples:
  * Startup configuration
  * Start to do a snapshot

* Warning: (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.
 * Examples:
  * Failure to send a raft message to a remote peer
  * Failure to receive heartbeat message within the configured election
 timeout

* Error: Data has been lost, a request has failed for a bad reason, or a required resource has been lost.
 * Examples:
  * Failure to allocate disk space for WAL

* Panic: Unrecoverable or unexpected error situation that requires stopping execution.
 * Examples:
  * Failure to create the database

* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.
 * Examples:
  * Failure to find the data directory
  * Failure to run a test function

[zap]: https://github.com/uber-go/zap
Dependency management

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Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,
see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).
Usually, human intervention is required
 each time when dependabot automatically opens some PRs to bump dependencies.
Please see the guidance below.

Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:
if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then
it doesn't matter to bump which module first. For
 example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency
in the following order,

- go.etcd.io/etcd/pkg/v3

- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <https://etcd.io/docs/next/dev-internal/modules>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```bash
cd ${ETCD_ROOT_DIR}/etcdctl
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```bash
git
 add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example,
you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

Troubleshooting

In an event of bumping the version of protoc, protoc plugins or grpc-gateway, it might change `*.proto` file which can result in the following error:

```bash
[0;31mFAIL: 'genproto' FAILED at Wed Jul 31 07:09:08 UTC 2024
make: *** [Makefile:134: verify-genproto] Error 255
```

To fix the above error, run the following script from the root of etcd repository:

```bash
./scripts/genproto.sh
```

Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If
 an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd)
which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't
bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should
try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we
should fix the issue and ensure all modules depend on the same version of the
 dependency.

Known incompatible dependency updates

arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.
Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),
and everyone is welcome to participate; you just need to register your name in the worksheet.

Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to
execute it for 3.4.

Golang versions

The etcd project aims to maintain a development branch that
is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations, performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment by editing `.go-version` and running `make fix`.
4. Run performance benchmarks locally to compare before and after.
5. Raise a pull request for the changes, for example, <https://github.com/etcd-io/etcd/pull/16394>.

Stable etcd release branches will be maintained
to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release
policy](https://go.dev/doc/devel/release).

For an example of how to update etcd to a new patch release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16343> and the linked pull requests.

References:

- <https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>

Core dependencies mappings

[bbolt](https://github.com/etcd-io/bbolt) and [raft](https://github.com/etcd-io/raft) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x (`main` branch) depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any
external raft module. We moved raft into [a separate repository](https://github.com/etcd-io/raft) starting

from 3.6 (`main` branch), and the first raft
release will be v3.6.0, so etcd 3.6.x will depend on raft 3.6.x.

Please see the table below:

etcd versions	bbolt versions	raft versions
3.4.x	v1.3.x	N/A
3.5.x	v1.3.x	N/A
3.6.x	v1.4.x	v3.6.x

1.1190 perl 5.34.0-3ubuntu1.5

1.1190.1 Available under license :

[name]
Uppercase license text

[input]
=head1 Uppercase License

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

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<one line to give the program's name and a brief idea of what it does.>

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

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when it starts in an interactive mode:

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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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Of course, the
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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;


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

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

 # The copyright message is the first paragraph:
```

```
 local $/ = '';
 my $copyright_msg = <$readme>;

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

 $year;
}


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

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

 $year;
}
```

1.1191 jmx-prometheus-javaagent 1.3.0

1.1191.1 Available under license :

Note that publicsuffixes.gz is compiled from The Public Suffix List:
https://publicsuffix.org/list/public_suffix_list.dat

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1.1192 apache-commons-text 1.14.0

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1.1194 python-certifi 2025.8.3

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.1195 python-certifi 2025.08.03

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ca-bundle.crt -- Bundle of CA Root Certificates

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file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.1196 prometheus-client 1.23.0

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1.1197 activation-api 1.2.2

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1.1198 protobuf-go 1.36.7

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1.1199 x-text 0.28.0

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1.1200 golang 1.24.6

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
```

```
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
```

```
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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2000-01-14
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1.1204 python-requests 2.32.5

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1.1205 cpp 12.3.0-1ubuntu1~22.04.2

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-12 source package is taken from the git gcc-12-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,

library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-12	libgnat-12	gnat-12-doc
C	gcc-12		gcc-12-doc
C++	g++-12	libstdc++6	libstdc++6-12-doc
D	gdc-12		
Fortran 95	gfortran-12	libgfortran5	gfortran-12-doc
Go	gccgo-12	libgo0	
Objective C	gobjc-12	libobjc4	
Objective C++	gobjc++-12		
Modula-2	gm2-12	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-12-dbg	libstdc++6-12-pic
D		libphobos-12-dev		

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-12-base	Base files common to all compilers
gcc-12-soft-float	Software floating point (ARM only)
gcc-12-source	The sources with patches

Ada:

libgnat-util12-dev, libgnat-util12	GNAT version library

C:

cpp-12, cpp-12-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some

libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp

- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-12 Ada support library and libgnat-util12 library.
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Version 3.1, 31 March 2009

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D:

gdc-12	GNU D Compiler
libphobos-12-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
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The Phobos standard runtime library:
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1.1206 libxml2 2.9.13+dfsg-1ubuntu0.8

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1.1207 apache-http-server 2.4.52-1ubuntu4.16

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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
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<meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css"
 />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a href="./sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.png" /></div>
<div class="up"><a href="./"><img title="&lt;-" alt="&lt;-" src="./images/left.gif" /></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="./">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
```

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 Languages: en

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<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
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  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
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      s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
       (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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   else {
      d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
   }
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<p class="menu"><a href="./mod/">Modules</a> | <a href="./mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="./glossary.html">Glossary</a> | <a
href="./sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--//--><![CDATA[//><!--
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```
/*****************************************************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Thanks to the following people for their input:
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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization

created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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1.1212 protobuf-go 1.36.8

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1.1214 genproto-googleapis-api 0.0.0-20250818200422-3122310a409c

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1.1215 genproto-googleapis-rpc 0.0.0-20250811230008-5f3141c8851a

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1.1218 kustomize-kyaml 0.20.1

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
```

```
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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```
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//
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 Name string `json:"name,omitempty"`
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Protocol Buffers for Go with Gadgets

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

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==========

The common/types/pb/equal.go modification of proto.Equal logic

==========

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
```

```
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
```

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```
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{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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tree/openbsd-reallocarray.c

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```

# 1.1225 sanitized-anchor-name 1.0.0
```

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1.1226 errors 0.9.1

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1.1227 blackfriday 2.0.1

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1.1229 golang 1.24.7

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
```

```
  // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.1230 genproto-googleapis-api 0.0.0-20250707201910-8d1bb00bc6a7

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1.1231 sctp 0.0.0-20250829011129-4b890084db30

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1.1232 protobuf-go 1.36.9

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1.1234 prometheus-client 1.23.2

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1.1236 zstd-jni 1.5.6-4

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Manifest-Version: 1.0

Specification-Title: zstd-jni
Specification-Version: 1.5.6-4
Specification-Vendor: com.github.luben
Implementation-Title: zstd-jni
Implementation-Version: 1.5.6-4
Implementation-Vendor: com.github.luben
Implementation-Vendor-Id: com.github.luben
Automatic-Module-Name: com.github.luben.zstd_jni
Bnd-LastModified: 1721499007163
Bundle-Name: zstd-jni
Bundle-SymbolicName: com.github.luben.zstd-jni
Bundle-Description: JNI bindings for Zstd native library that provides f
ast and high compression lossless algorithm for Java and all JVM langua
ges.
Bundle-Vendor: com.github.luben
Bundle-License: https://opensource.org/licenses/BSD-2-Clause;description
=BSD 2-Clause License
Bundle-Version: 1.5.6.4
Bundle-ManifestVersion: 2
Bundle-NativeCode: darwin/x86_64/libzstd-jni-1.5.6-4.dylib;osname=MacOS;
osname=MacOSX;processor=x86_64,darwin/aarch64/libzstd-jni-1.5.6-4.dylib
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Export-Package:
com.github.luben.zstd;version="1.5.6.4",com.github.luben
.zstd.util;version="1.5.6.4"
Import-Package: org.osgi.framework;resolution:=optional
Private-Package: darwin.aarch64,darwin.x86_64,freebsd.amd64,freebsd.i386
,linux.aarch64,linux.amd64,linux.arm,linux.i386,linux.loongarch64,linux
.mips64,linux.ppc64,linux.ppc64le,linux.riscv64,linux.s390x,win.aarch64
,win.amd64,win.x86
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version>=1.8))"

Found in path(s):
* /zstd-jni-1-5-6-4-5-jar/META-INF/MANIFEST.MF

1.1237 libxml2 2.9.13+dfsg-1ubuntu0.9

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1.1239 genproto-googleapis-api 0.0.0-20250908214217-97024824d090

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1.1240 genproto-googleapis-rpc 0.0.0-20250908214217-97024824d090

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#
# Use the following command to generate the list
#
# git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
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1.1242 kubernetes 1.33.5

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
```

```
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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==========
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package spec

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//
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type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.1245 kubernetes-yaml 1.6.0

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1.1246 x-sys 0.35.0

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1.1247 x-crypto 0.41.0

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1.1248 x-net 0.43.0

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1.1249 kube-openapi 0.0.0-20250710124328-f3f2b991d03b

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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```

```
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.1254 x-crypto 0.42.0

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1.1255 x-time-rate 0.13.0

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1.1256 auto-sdk 1.2.1

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

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/* This is auto-generated file. See bpf_doc.py for details. */

```
/* Forward declarations of BPF structs */
struct bpf_fib_lookup;
struct bpf_sk_lookup;
struct bpf_perf_event_data;
struct bpf_perf_event_value;
struct bpf_pidns_info;
struct bpf_redir_neigh;
struct bpf_sock;
struct bpf_sock_addr;
struct bpf_sock_ops;
struct bpf_sock_tuple;
struct bpf_spin_lock;
struct bpf_sysctl;
struct bpf_tcp_sock;
struct bpf_tunnel_key;
struct bpf_xfrm_state;
struct linux_binprm;
struct pt_regs;
struct sk_reuseport_md;
struct sockaddr;
```

```
struct tcphdr;
struct seq_file;
struct tcp6_sock;
struct tcp_sock;
struct tcp_timewait_sock;
struct tcp_request_sock;
struct udp6_sock;
struct unix_sock;
struct task_struct;
struct cgroup;
struct __sk_buff;
struct sk_msg_md;
struct xdp_md;
struct path;
struct btf_ptr;
struct inode;
struct socket;
struct file;
struct bpf_timer;
struct mptcp_sock;
struct bpf_dynptr;
struct iphdr;
struct ipv6hdr;

/*
* bpf_map_lookup_elem
*
*  Perform a lookup in *map* for an entry associated
 to *key*.
*
* Returns
*  Map value associated to *key*, or **NULL** if no entry was
*  found.
*/
static void *(* const bpf_map_lookup_elem)(void *map, const void *key) = (void *) 1;

/*
* bpf_map_update_elem
*
*  Add or update the value of the entry associated to *key* in
*  *map* with *value*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
```

```
*
*  Flag value **BPF_NOEXIST** cannot be used for maps of types
*  **BPF_MAP_TYPE_ARRAY** or **BPF_MAP_TYPE_PERCPU_ARRAY**  (all
*  elements always exist), the helper would return an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_update_elem)(void *map, const void *key, const void *value, __u64 flags) = (void *)
2;

/*
* bpf_map_delete_elem
*
*  Delete entry with *key* from
 *map*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_delete_elem)(void *map, const void *key) = (void *) 3;

/*
* bpf_probe_read
*
*  For tracing programs, safely attempt to read *size* bytes from
*  kernel space address *unsafe_ptr* and store the data in *dst*.
*
*  Generally, use **bpf_probe_read_user**\ () or
*  **bpf_probe_read_kernel**\ () instead.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 4;

/*
* bpf_ktime_get_ns
*
*  Return the time elapsed since system boot, in nanoseconds.
*  Does not include time the system was suspended.
*  See: **clock_gettime**\ (**CLOCK_MONOTONIC**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_ns)(void) = (void *) 5;
```

```
/*
* bpf_trace_printk
*
*  This helper is a "printk()-like" facility for debugging. It
*  prints a message
 defined by format *fmt* (of size *fmt_size*)
*  to file *\/sys/kernel/tracing/trace* from TraceFS, if
*  available. It can take up to three additional **u64**
*  arguments (as an eBPF helpers, the total number of arguments is
*  limited to five).
*
*  Each time the helper is called, it appends a line to the trace.
*  Lines are discarded while *\/sys/kernel/tracing/trace* is
*  open, use *\/sys/kernel/tracing/trace_pipe* to avoid this.
*  The format of the trace is customizable, and the exact output
*  one will get depends on the options set in
*  *\/sys/kernel/tracing/trace_options* (see also the
*  *README* file under the same directory). However, it usually
*  defaults to something like:
*
*  ::
*
*   telnet-470   [001] .N.. 419421.045894: 0x00000001: <formatted msg>
*
*  In the above:
*
*   * ``telnet`` is the name of the current task.
*   * ``470`` is the PID of the current task.
*   * ``001`` is the CPU number on which the task is
*     running.
*   * In
 ``.N..``, each character refers to a set of
*     options (whether irqs are enabled, scheduling
*     options, whether hard/softirqs are running, level of
*     preempt_disabled respectively). **N** means that
*     **TIF_NEED_RESCHED** and **PREEMPT_NEED_RESCHED**
*     are set.
*   * ``419421.045894`` is a timestamp.
*   * ``0x00000001`` is a fake value used by BPF for the
*     instruction pointer register.
*   * ``<formatted msg>`` is the message formatted with
*     *fmt*.
*
*  The conversion specifiers supported by *fmt* are similar, but
*  more limited than for printk(). They are **%d**, **%i**,
*  **%u**, **%x**, **%ld**, **%li**, **%lu**, **%lx**, **%lld**,
*  **%lli**, **%llu**, **%llx**, **%p**, **%s**. No modifier (size
*  of field, padding with zeroes, etc.) is available, and the
```

```
*  helper will return **-EINVAL** (but print nothing) if it
*  encounters an unknown specifier.
*
*  Also, note that **bpf_trace_printk**\ () is slow, and should
*  only be used
 for debugging purposes. For this reason, a notice
*  block (spanning several lines) is printed to kernel logs and
*  states that the helper should not be used "for production use"
*  the first time this helper is used (or more precisely, when
*  **trace_printk**\ () buffers are allocated). For passing values
*  to user space, perf events should be preferred.
*
* Returns
*  The number of bytes written to the buffer, or a negative error
*  in case of failure.
*/
static long (* const bpf_trace_printk)(const char *fmt, __u32 fmt_size, ...) = (void *) 6;

/*
* bpf_get_prandom_u32
*
*  Get a pseudo-random number.
*
*  From a security point of view, this helper uses its own
*  pseudo-random internal state, and cannot be used to infer the
*  seed of other random functions in the kernel. However, it is
*  essential to note that the generator used by the helper is not
*  cryptographically secure.
*
* Returns
*  A random 32-bit unsigned value.
*/
static __u32 (* const bpf_get_prandom_u32)(void)
 = (void *) 7;

/*
* bpf_get_smp_processor_id
*
*  Get the SMP (symmetric multiprocessing) processor id. Note that
*  all programs run with migration disabled, which means that the
*  SMP processor id is stable during all the execution of the
*  program.
*
* Returns
*  The SMP id of the processor running the program.
*/
static __u32 (* const bpf_get_smp_processor_id)(void) = (void *) 8;
```

```
/*
* bpf_skb_store_bytes
*
*  Store *len* bytes from address *from* into the packet
*  associated to *skb*, at *offset*. *flags* are a combination of
*  **BPF_F_RECOMPUTE_CSUM** (automatically recompute the
*  checksum for the packet after storing the bytes) and
*  **BPF_F_INVALIDATE_HASH** (set *skb*\ **->hash**, *skb*\
*  **->swhash** and *skb*\ **->l4hash** to 0).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must
 be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_store_bytes)(struct __sk_buff *skb, __u32 offset, const void *from, __u32 len, __u64
flags) = (void *) 9;

/*
* bpf_l3_csum_replace
*
*  Recompute the layer 3 (e.g. IP) checksum for the packet
*  associated to *skb*. Computation is incremental, so the helper
*  must know the former value of the header field that was
*  modified (*from*), the new value of this field (*to*), and the
*  number of bytes (2 or 4) for this field, stored in *size*.
*  Alternatively, it is possible to store the difference between
*  the previous and the new values of the header field in *to*, by
*  setting *from* and *size* to 0. For both methods, *offset*
*  indicates the location of the IP checksum within the packet.
*
*  This helper works in combination with **bpf_csum_diff**\ (),
*  which does not update
 the checksum in-place, but offers more
*  flexibility and can handle sizes larger than 2 or 4 for the
*  checksum to update.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
```

```
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_l3_csum_replace)(struct __sk_buff *skb, __u32 offset, __u64 from, __u64 to, __u64 size) =
(void *) 10;

/*
* bpf_l4_csum_replace
*
*  Recompute the layer 4 (e.g. TCP, UDP or ICMP) checksum for the
*  packet associated to *skb*. Computation is incremental, so the
*  helper must know the former value of the header field that was
*  modified (*from*), the new value of this field (*to*), and the
*  number of bytes (2 or 4) for this field, stored on the lowest
*  four bits
 of *flags*. Alternatively, it is possible to store
*  the difference between the previous and the new values of the
*  header field in *to*, by setting *from* and the four lowest
*  bits of *flags* to 0. For both methods, *offset* indicates the
*  location of the IP checksum within the packet. In addition to
*  the size of the field, *flags* can be added (bitwise OR) actual
*  flags. With **BPF_F_MARK_MANGLED_0**, a null checksum is left
*  untouched (unless **BPF_F_MARK_ENFORCE** is added as well), and
*  for updates resulting in a null checksum the value is set to
*  **CSUM_MANGLED_0** instead. Flag **BPF_F_PSEUDO_HDR** indicates
*  the checksum is to be computed against a pseudo-header.
*
*  This helper works in combination with **bpf_csum_diff**\ (),
*  which does not update the checksum in-place, but offers more
*  flexibility and can handle sizes larger than 2 or 4 for the
*  checksum to update.
*
*  A call to this helper is susceptible to change the underlying
 *  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_l4_csum_replace)(struct __sk_buff *skb, __u32 offset, __u64 from, __u64 to, __u64 flags)
= (void *) 11;

/*
* bpf_tail_call
*
*  This special helper is used to trigger a "tail call", or in
```

```
*  other words, to jump into another eBPF program. The same stack
*  frame is used (but values on stack and in registers for the
*  caller are not accessible to the callee). This mechanism allows
*  for program chaining, either for raising the maximum number of
*  available eBPF instructions, or to execute given programs in
*  conditional blocks. For security reasons, there is an upper
*  limit to the number of successive tail calls that can be
*  performed.
*
*  Upon call
 of this helper, the program attempts to jump into a
*  program referenced at index *index* in *prog_array_map*, a
*  special map of type **BPF_MAP_TYPE_PROG_ARRAY**, and passes
*  *ctx*, a pointer to the context.
*
*  If the call succeeds, the kernel immediately runs the first
*  instruction of the new program. This is not a function call,
*  and it never returns to the previous program. If the call
*  fails, then the helper has no effect, and the caller continues
*  to run its subsequent instructions. A call can fail if the
*  destination program for the jump does not exist (i.e. *index*
*  is superior to the number of entries in *prog_array_map*), or
*  if the maximum number of tail calls has been reached for this
*  chain of programs. This limit is defined in the kernel by the
*  macro **MAX_TAIL_CALL_CNT** (not accessible to user space),
*  which is currently set to 33.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const
 bpf_tail_call)(void *ctx, void *prog_array_map, __u32 index) = (void *) 12;

/*
* bpf_clone_redirect
*
*  Clone and redirect the packet associated to *skb* to another
*  net device of index *ifindex*. Both ingress and egress
*  interfaces can be used for redirection. The **BPF_F_INGRESS**
*  value in *flags* is used to make the distinction (ingress path
*  is selected if the flag is present, egress path otherwise).
*  This is the only flag supported for now.
*
*  In comparison with **bpf_redirect**\ () helper,
*  **bpf_clone_redirect**\ () has the associated cost of
*  duplicating the packet buffer, but this can be executed out of
*  the eBPF program. Conversely, **bpf_redirect**\ () is more
*  efficient, but it is handled through an action code where the
```

```
*  redirection happens only after the eBPF program has returned.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously
 done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure. Positive
*  error indicates a potential drop or congestion in the target
*  device. The particular positive error codes are not defined.
*/
static long (* const bpf_clone_redirect)(struct __sk_buff *skb, __u32 ifindex, __u64 flags) = (void *) 13;

/*
* bpf_get_current_pid_tgid
*
*  Get the current pid and tgid.
*
* Returns
*  A 64-bit integer containing the current tgid and pid, and
*  created as such:
*  *current_task*\ **->tgid << 32 \|**
*  *current_task*\ **->pid**.
*/
static __u64 (* const bpf_get_current_pid_tgid)(void) = (void *) 14;

/*
* bpf_get_current_uid_gid
*
*  Get the current uid and gid.
*
* Returns
*  A 64-bit integer containing the current GID and UID, and
*  created as such: *current_gid* **<< 32 \|** *current_uid*.
*/
static __u64 (* const
 bpf_get_current_uid_gid)(void) = (void *) 15;

/*
* bpf_get_current_comm
*
*  Copy the **comm** attribute of the current task into *buf* of
*  *size_of_buf*. The **comm** attribute contains the name of
*  the executable (excluding the path) for the current task. The
*  *size_of_buf* must be strictly positive. On success, the
```

```
*  helper makes sure that the *buf* is NUL-terminated. On failure,
*  it is filled with zeroes.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_get_current_comm)(void *buf, __u32 size_of_buf) = (void *) 16;

/*
* bpf_get_cgroup_classid
*
*  Retrieve the classid for the current task, i.e. for the net_cls
*  cgroup to which *skb* belongs.
*
*  This helper can be used on TC egress path, but not on ingress.
*
*  The net_cls cgroup provides an interface to tag network packets
*  based on a user-provided identifier for all traffic coming from
*  the tasks belonging to the related cgroup. See also the
 related
*  kernel documentation, available from the Linux sources in file
*  *Documentation/admin-guide/cgroup-v1/net_cls.rst*.
*
*  The Linux kernel has two versions for cgroups: there are
*  cgroups v1 and cgroups v2. Both are available to users, who can
*  use a mixture of them, but note that the net_cls cgroup is for
*  cgroup v1 only. This makes it incompatible with BPF programs
*  run on cgroups, which is a cgroup-v2-only feature (a socket can
*  only hold data for one version of cgroups at a time).
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_CGROUP_NET_CLASSID** configuration option set to
*  "**y**" or to "**m**".
*
* Returns
*  The classid, or 0 for the default unconfigured classid.
*/
static __u32 (* const bpf_get_cgroup_classid)(struct __sk_buff *skb) = (void *) 17;

/*
* bpf_skb_vlan_push
*
*  Push a *vlan_tci* (VLAN tag control information) of protocol
*  *vlan_proto* to the packet associated to *skb*, then update
 *  the checksum. Note that if *vlan_proto* is different from
*  **ETH_P_8021Q** and **ETH_P_8021AD**, it is considered to
*  be **ETH_P_8021Q**.
*
```

```
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_vlan_push)(struct __sk_buff *skb, __be16 vlan_proto, __u16 vlan_tci) = (void *) 18;

/*
* bpf_skb_vlan_pop
*
*  Pop a VLAN header from the packet associated to *skb*.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
 *
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_vlan_pop)(struct __sk_buff *skb) = (void *) 19;

/*
* bpf_skb_get_tunnel_key
*
*  Get tunnel metadata. This helper takes a pointer *key* to an
*  empty **struct bpf_tunnel_key** of **size**, that will be
*  filled with tunnel metadata for the packet associated to *skb*.
*  The *flags* can be set to **BPF_F_TUNINFO_IPV6**, which
*  indicates that the tunnel is based on IPv6 protocol instead of
*  IPv4.
*
*  The **struct bpf_tunnel_key** is an object that generalizes the
*  principal parameters used by various tunneling protocols into a
*  single struct. This way, it can be used to easily make a
*  decision based on the contents of the encapsulation header,
*  "summarized" in this struct. In particular, it holds the IP
*  address of the remote end (IPv4 or IPv6, depending on the case)
*  in *key*\ **->remote_ipv4** or *key*\ **->remote_ipv6**. Also,
*  this struct
 exposes the *key*\ **->tunnel_id**, which is
*  generally mapped to a VNI (Virtual Network Identifier), making
*  it programmable together with the **bpf_skb_set_tunnel_key**\
```

```
*  () helper.
*
*  Let's imagine that the following code is part of a program
*  attached to the TC ingress interface, on one end of a GRE
*  tunnel, and is supposed to filter out all messages coming from
*  remote ends with IPv4 address other than 10.0.0.1:
*
*  ::
*
*   int ret;
*   struct bpf_tunnel_key key = {};
*
*   ret = bpf_skb_get_tunnel_key(skb, &key, sizeof(key), 0);
*   if (ret < 0)
*    return TC_ACT_SHOT; // drop packet
*
*   if (key.remote_ipv4 != 0x0a000001)
*    return TC_ACT_SHOT; // drop packet
*
*   return TC_ACT_OK;  // accept packet
*
*  This interface can also be used with all encapsulation devices
*  that can operate in "collect metadata" mode: instead of having
*  one network device per specific configuration, the "collect
*  metadata" mode only requires a single
 device where the
*  configuration can be extracted from this helper.
*
*  This can be used together with various tunnels such as VXLan,
*  Geneve, GRE or IP in IP (IPIP).
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_get_tunnel_key)(struct __sk_buff *skb, struct bpf_tunnel_key *key, __u32 size, __u64
flags) = (void *) 20;

/*
* bpf_skb_set_tunnel_key
*
*  Populate tunnel metadata for packet associated to *skb.* The
*  tunnel metadata is set to the contents of *key*, of *size*. The
*  *flags* can be set to a combination of the following values:
*
*  **BPF_F_TUNINFO_IPV6**
*   Indicate that the tunnel is based on IPv6 protocol
*   instead of IPv4.
*  **BPF_F_ZERO_CSUM_TX**
```

```
*   For IPv4 packets, add a flag to tunnel metadata
*   indicating that checksum computation should be skipped
*   and checksum set to zeroes.
*  **BPF_F_DONT_FRAGMENT**
*   Add a flag to tunnel metadata indicating that the
*   packet should
 not be fragmented.
*  **BPF_F_SEQ_NUMBER**
*   Add a flag to tunnel metadata indicating that a
*   sequence number should be added to tunnel header before
*   sending the packet. This flag was added for GRE
*   encapsulation, but might be used with other protocols
*   as well in the future.
*  **BPF_F_NO_TUNNEL_KEY**
*   Add a flag to tunnel metadata indicating that no tunnel
*   key should be set in the resulting tunnel header.
*
*  Here is a typical usage on the transmit path:
*
*  ::
*
*   struct bpf_tunnel_key key;
*       populate key ...
*   bpf_skb_set_tunnel_key(skb, &key, sizeof(key), 0);
*   bpf_clone_redirect(skb, vxlan_dev_ifindex, 0);
*
*  See also the description of the **bpf_skb_get_tunnel_key**\ ()
*  helper for additional information.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_set_tunnel_key)(struct __sk_buff *skb, struct bpf_tunnel_key *key, __u32 size, __u64
flags) = (void *) 21;

/*
 * bpf_perf_event_read
*
*  Read the value of a perf event counter. This helper relies on a
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. The nature of
*  the perf event counter is selected when *map* is updated with
*  perf event file descriptors. The *map* is an array whose size
*  is the number of available CPUs, and each cell contains a value
*  relative to one CPU. The value to retrieve is indicated by
*  *flags*, that contains the index of the CPU to look up, masked
*  with **BPF_F_INDEX_MASK**. Alternatively, *flags* can be set to
*  **BPF_F_CURRENT_CPU** to indicate that the value for the
*  current CPU should be retrieved.
```

```
*
*  Note that before Linux 4.13, only hardware perf event can be
*  retrieved.
*
*  Also, be aware that the newer helper
*  **bpf_perf_event_read_value**\ () is recommended over
*  **bpf_perf_event_read**\ () in general. The latter has some ABI
*  quirks where error and counter value are used as a return code
*  (which is wrong
 to do since ranges may overlap). This issue is
*  fixed with **bpf_perf_event_read_value**\ (), which at the same
*  time provides more features over the **bpf_perf_event_read**\
*  () interface. Please refer to the description of
*  **bpf_perf_event_read_value**\ () for details.
*
* Returns
*  The value of the perf event counter read from the map, or a
*  negative error code in case of failure.
*/
static __u64 (* const bpf_perf_event_read)(void *map, __u64 flags) = (void *) 22;

/*
* bpf_redirect
*
*  Redirect the packet to another net device of index *ifindex*.
*  This helper is somewhat similar to **bpf_clone_redirect**\
*  (), except that the packet is not cloned, which provides
*  increased performance.
*
*  Except for XDP, both ingress and egress interfaces can be used
*  for redirection. The **BPF_F_INGRESS** value in *flags* is used
*  to make the distinction (ingress path is selected if the flag
*  is present, egress path otherwise). Currently, XDP only
*
  supports redirection to the egress interface, and accepts no
*  flag at all.
*
*  The same effect can also be attained with the more generic
*  **bpf_redirect_map**\ (), which uses a BPF map to store the
*  redirect target instead of providing it directly to the helper.
*
* Returns
*  For XDP, the helper returns **XDP_REDIRECT** on success or
*  **XDP_ABORTED** on error. For other program types, the values
*  are **TC_ACT_REDIRECT** on success or **TC_ACT_SHOT** on
*  error.
*/
static long (* const bpf_redirect)(__u32 ifindex, __u64 flags) = (void *) 23;
```

```
/*
* bpf_get_route_realm
*
*  Retrieve the realm or the route, that is to say the
*  **tclassid** field of the destination for the *skb*. The
*  identifier retrieved is a user-provided tag, similar to the
*  one used with the net_cls cgroup (see description for
*  **bpf_get_cgroup_classid**\ () helper), but here this tag is
*  held by a route (a destination entry), not by a task.
*
*  Retrieving this identifier
 works with the clsact TC egress hook
*  (see also **tc-bpf(8)**), or alternatively on conventional
*  classful egress qdiscs, but not on TC ingress path. In case of
*  clsact TC egress hook, this has the advantage that, internally,
*  the destination entry has not been dropped yet in the transmit
*  path. Therefore, the destination entry does not need to be
*  artificially held via **netif_keep_dst**\ () for a classful
*  qdisc until the *skb* is freed.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_IP_ROUTE_CLASSID** configuration option.
*
* Returns
*  The realm of the route for the packet associated to *skb*, or 0
*  if none was found.
*/
static __u32 (* const bpf_get_route_realm)(struct __sk_buff *skb) = (void *) 24;

/*
* bpf_perf_event_output
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
 *  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
```

```
*  The context of the program *ctx* needs also be passed to the
*  helper.
*
*  On user space, a program willing to read the values needs to
*  call **perf_event_open**\ () on the perf event (either for
*  one or for all CPUs) and to store the file descriptor into the
*  *map*. This must be done before the eBPF program can send data
*  into it. An example is available in file
*  *samples/bpf/trace_output_user.c* in the Linux kernel source
*  tree (the eBPF program counterpart is in
*  *samples/bpf/trace_output_kern.c*).
 *
*  **bpf_perf_event_output**\ () achieves better performance
*  than **bpf_trace_printk**\ () for sharing data with user
*  space, and is much better suitable for streaming data from eBPF
*  programs.
*
*  Note that this helper is not restricted to tracing use cases
*  and can be used with programs attached to TC or XDP as well,
*  where it allows for passing data to user space listeners. Data
*  can be:
*
*  * Only custom structs,
*  * Only the packet payload, or
*  * A combination of both.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_perf_event_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *)
25;

/*
* bpf_skb_load_bytes
*
*  This helper was provided as an easy way to load data from a
*  packet. It can be used to load *len* bytes from *offset* from
*  the packet associated to *skb*, into the buffer pointed by
*  *to*.
*
*  Since Linux 4.7, usage of this helper
 has mostly been replaced
*  by "direct packet access", enabling packet data to be
*  manipulated with *skb*\ **->data** and *skb*\ **->data_end**
*  pointing respectively to the first byte of packet data and to
*  the byte after the last byte of packet data. However, it
*  remains useful if one wishes to read large quantities of data
*  at once from a packet into the eBPF stack.
```

```
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_load_bytes)(const void *skb, __u32 offset, void *to, __u32 len) = (void *) 26;

/*
* bpf_get_stackid
*
*  Walk a user or a kernel stack and return its id. To achieve
*  this, the helper needs *ctx*, which is a pointer to the context
*  on which the tracing program is executed, and a pointer to a
*  *map* of type **BPF_MAP_TYPE_STACK_TRACE**.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can
 be used to set
*  a combination of the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*  **BPF_F_FAST_STACK_CMP**
*   Compare stacks by hash only.
*  **BPF_F_REUSE_STACKID**
*   If two different stacks hash into the same *stackid*,
*   discard the old one.
*
*  The stack id retrieved is a 32 bit long integer handle which
*  can be further combined with other data (including other stack
*  ids) and used as a key into maps. This can be useful for
*  generating a variety of graphs (such as flame graphs or off-cpu
*  graphs).
*
*  For walking a stack, this helper is an improvement over
*  **bpf_probe_read**\ (), which can be used with unrolled loops
*  but is not efficient and consumes a lot of eBPF instructions.
*  Instead, **bpf_get_stackid**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should
 be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
```

```
* Returns
*  The positive or null stack id on success, or a negative error
*  in case of failure.
*/
static long (* const bpf_get_stackid)(void *ctx, void *map, __u64 flags) = (void *) 27;

/*
* bpf_csum_diff
*
*  Compute a checksum difference, from the raw buffer pointed by
*  *from*, of length *from_size* (that must be a multiple of 4),
*  towards the raw buffer pointed by *to*, of size *to_size*
*  (same remark). An optional *seed* can be added to the value
*  (this can be cascaded, the seed may come from a previous call
*  to the helper).
*
*  This is flexible enough to be used in several ways:
*
*  * With *from_size* == 0, *to_size* > 0 and *seed* set to
*    checksum, it can be used when pushing new data.
*  * With *from_size* > 0, *to_size* == 0 and *seed* set to
*    checksum,
 it can be used when removing data from a packet.
*  * With *from_size* > 0, *to_size* > 0 and *seed* set to 0, it
*    can be used to compute a diff. Note that *from_size* and
*    *to_size* do not need to be equal.
*
*  This helper can be used in combination with
*  **bpf_l3_csum_replace**\ () and **bpf_l4_csum_replace**\ (), to
*  which one can feed in the difference computed with
*  **bpf_csum_diff**\ ().
*
* Returns
*  The checksum result, or a negative error code in case of
*  failure.
*/
static __s64 (* const bpf_csum_diff)(__be32 *from, __u32 from_size, __be32 *to, __u32 to_size, __wsum seed) =
(void *) 28;

/*
* bpf_skb_get_tunnel_opt
*
*  Retrieve tunnel options metadata for the packet associated to
*  *skb*, and store the raw tunnel option data to the buffer *opt*
*  of *size*.
*
*  This helper can be used with encapsulation devices that can
*  operate in "collect metadata" mode (please refer to the related
```

```
*  note in the description of **bpf_skb_get_tunnel_key**\
 () for
*  more details). A particular example where this can be used is
*  in combination with the Geneve encapsulation protocol, where it
*  allows for pushing (with **bpf_skb_get_tunnel_opt**\ () helper)
*  and retrieving arbitrary TLVs (Type-Length-Value headers) from
*  the eBPF program. This allows for full customization of these
*  headers.
*
* Returns
*  The size of the option data retrieved.
*/
static long (* const bpf_skb_get_tunnel_opt)(struct __sk_buff *skb, void *opt, __u32 size) = (void *) 29;

/*
* bpf_skb_set_tunnel_opt
*
*  Set tunnel options metadata for the packet associated to *skb*
*  to the option data contained in the raw buffer *opt* of *size*.
*
*  See also the description of the **bpf_skb_get_tunnel_opt**\ ()
*  helper for additional information.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_set_tunnel_opt)(struct __sk_buff *skb, void *opt, __u32 size) = (void *) 30;

/*
*
 bpf_skb_change_proto
*
*  Change the protocol of the *skb* to *proto*. Currently
*  supported are transition from IPv4 to IPv6, and from IPv6 to
*  IPv4. The helper takes care of the groundwork for the
*  transition, including resizing the socket buffer. The eBPF
*  program is expected to fill the new headers, if any, via
*  **skb_store_bytes**\ () and to recompute the checksums with
*  **bpf_l3_csum_replace**\ () and **bpf_l4_csum_replace**\
*  (). The main case for this helper is to perform NAT64
*  operations out of an eBPF program.
*
*  Internally, the GSO type is marked as dodgy so that headers are
*  checked and segments are recalculated by the GSO/GRO engine.
*  The size for GSO target is adapted as well.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
```

```
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are
 invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_proto)(struct __sk_buff *skb, __be16 proto, __u64 flags) = (void *) 31;

/*
* bpf_skb_change_type
*
*  Change the packet type for the packet associated to *skb*. This
*  comes down to setting *skb*\ **->pkt_type** to *type*, except
*  the eBPF program does not have a write access to *skb*\
*  **->pkt_type** beside this helper. Using a helper here allows
*  for graceful handling of errors.
*
*  The major use case is to change incoming *skb*s to
*  **PACKET_HOST** in a programmatic way instead of having to
*  recirculate via **redirect**\ (..., **BPF_F_INGRESS**), for
*  example.
*
*  Note that *type* only allows certain values. At this time, they
*  are:
*
*  **PACKET_HOST**
*   Packet is for us.
*  **PACKET_BROADCAST**
*   Send packet to all.
 *  **PACKET_MULTICAST**
*   Send packet to group.
*  **PACKET_OTHERHOST**
*   Send packet to someone else.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_type)(struct __sk_buff *skb, __u32 type) = (void *) 32;

/*
* bpf_skb_under_cgroup
*
*  Check whether *skb* is a descendant of the cgroup2 held by
```

```
*  *map* of type **BPF_MAP_TYPE_CGROUP_ARRAY**, at *index*.
*
* Returns
*  The return value depends on the result of the test, and can be:
*
*  * 0, if the *skb* failed the cgroup2 descendant test.
*  * 1, if the *skb* succeeded the cgroup2 descendant test.
*  * A negative error code, if an error occurred.
*/
static long (* const bpf_skb_under_cgroup)(struct __sk_buff *skb, void *map, __u32 index) = (void *) 33;

/*
* bpf_get_hash_recalc
*
*  Retrieve the hash of the packet, *skb*\ **->hash**. If it is
*  not set, in particular if the hash was cleared due to mangling,
*  recompute this hash. Later accesses
 to the hash can be done
*  directly with *skb*\ **->hash**.
*
*  Calling **bpf_set_hash_invalid**\ (), changing a packet
*  prototype with **bpf_skb_change_proto**\ (), or calling
*  **bpf_skb_store_bytes**\ () with the
*  **BPF_F_INVALIDATE_HASH** are actions susceptible to clear
*  the hash and to trigger a new computation for the next call to
*  **bpf_get_hash_recalc**\ ().
*
* Returns
*  The 32-bit hash.
*/
static __u32 (* const bpf_get_hash_recalc)(struct __sk_buff *skb) = (void *) 34;

/*
* bpf_get_current_task
*
*  Get the current task.
*
* Returns
*  A pointer to the current task struct.
*/
static __u64 (* const bpf_get_current_task)(void) = (void *) 35;

/*
* bpf_probe_write_user
*
*  Attempt in a safe way to write *len* bytes from the buffer
*  *src* to *dst* in memory. It only works for threads that are in
*  user context, and *dst* must be a valid user space address.
```

```
*
*  This helper should not be used to implement any kind of
*  security mechanism
 because of TOC-TOU attacks, but rather to
*  debug, divert, and manipulate execution of semi-cooperative
*  processes.
*
*  Keep in mind that this feature is meant for experiments, and it
*  has a risk of crashing the system and running programs.
*  Therefore, when an eBPF program using this helper is attached,
*  a warning including PID and process name is printed to kernel
*  logs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_write_user)(void *dst, const void *src, __u32 len) = (void *) 36;

/*
* bpf_current_task_under_cgroup
*
*  Check whether the probe is being run is the context of a given
*  subset of the cgroup2 hierarchy. The cgroup2 to test is held by
*  *map* of type **BPF_MAP_TYPE_CGROUP_ARRAY**, at *index*.
*
* Returns
*  The return value depends on the result of the test, and can be:
*
*  * 1, if current task belongs to the cgroup2.
*  * 0, if current task does not belong to the cgroup2.
 *  * A negative error code, if an error occurred.
*/
static long (* const bpf_current_task_under_cgroup)(void *map, __u32 index) = (void *) 37;

/*
* bpf_skb_change_tail
*
*  Resize (trim or grow) the packet associated to *skb* to the
*  new *len*. The *flags* are reserved for future usage, and must
*  be left at zero.
*
*  The basic idea is that the helper performs the needed work to
*  change the size of the packet, then the eBPF program rewrites
*  the rest via helpers like **bpf_skb_store_bytes**\ (),
*  **bpf_l3_csum_replace**\ (), **bpf_l3_csum_replace**\ ()
*  and others. This helper is a slow path utility intended for
*  replies with control messages. And because it is targeted for
*  slow path, the helper itself can afford to be slow: it
```

```
*  implicitly linearizes, unclones and drops offloads from the
*  *skb*.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done
 by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_tail)(struct __sk_buff *skb, __u32 len, __u64 flags) = (void *) 38;

/*
* bpf_skb_pull_data
*
*  Pull in non-linear data in case the *skb* is non-linear and not
*  all of *len* are part of the linear section. Make *len* bytes
*  from *skb* readable and writable. If a zero value is passed for
*  *len*, then all bytes in the linear part of *skb* will be made
*  readable and writable.
*
*  This helper is only needed for reading and writing with direct
*  packet access.
*
*  For direct packet access, testing that offsets to access
*  are within packet boundaries (test on *skb*\ **->data_end**) is
*  susceptible to fail if offsets are invalid, or if the requested
*  data is in non-linear parts of the *skb*. On failure the
*  program
 can just bail out, or in the case of a non-linear
*  buffer, use a helper to make the data available. The
*  **bpf_skb_load_bytes**\ () helper is a first solution to access
*  the data. Another one consists in using **bpf_skb_pull_data**
*  to pull in once the non-linear parts, then retesting and
*  eventually access the data.
*
*  At the same time, this also makes sure the *skb* is uncloned,
*  which is a necessary condition for direct write. As this needs
*  to be an invariant for the write part only, the verifier
*  detects writes and adds a prologue that is calling
*  **bpf_skb_pull_data()** to effectively unclone the *skb* from
*  the very beginning in case it is indeed cloned.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
```

```
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
*
 Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_pull_data)(struct __sk_buff *skb, __u32 len) = (void *) 39;

/*
* bpf_csum_update
*
*  Add the checksum *csum* into *skb*\ **->csum** in case the
*  driver has supplied a checksum for the entire packet into that
*  field. Return an error otherwise. This helper is intended to be
*  used in combination with **bpf_csum_diff**\ (), in particular
*  when the checksum needs to be updated after data has been
*  written into the packet through direct packet access.
*
* Returns
*  The checksum on success, or a negative error code in case of
*  failure.
*/
static __s64 (* const bpf_csum_update)(struct __sk_buff *skb, __wsum csum) = (void *) 40;

/*
* bpf_set_hash_invalid
*
*  Invalidate the current *skb*\ **->hash**. It can be used after
*  mangling on headers through direct packet access, in order to
*  indicate that the hash is outdated and to trigger a
*  recalculation the next
 time the kernel tries to access this
*  hash or when the **bpf_get_hash_recalc**\ () helper is called.
*
* Returns
*  void.
*/
static void (* const bpf_set_hash_invalid)(struct __sk_buff *skb) = (void *) 41;

/*
* bpf_get_numa_node_id
*
*  Return the id of the current NUMA node. The primary use case
*  for this helper is the selection of sockets for the local NUMA
*  node, when the program is attached to sockets using the
*  **SO_ATTACH_REUSEPORT_EBPF** option (see also **socket(7)**),
```

```
*  but the helper is also available to other eBPF program types,
*  similarly to **bpf_get_smp_processor_id**\ ().
*
* Returns
*  The id of current NUMA node.
*/
static long (* const bpf_get_numa_node_id)(void) = (void *) 42;

/*
* bpf_skb_change_head
*
*  Grows headroom of packet associated to *skb* and adjusts the
*  offset of the MAC header accordingly, adding *len* bytes of
*  space. It automatically extends and reallocates memory as
*  required.
*
*  This helper can be used
 on a layer 3 *skb* to push a MAC header
*  for redirection into a layer 2 device.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_head)(struct __sk_buff *skb, __u32 len, __u64 flags) = (void *) 43;

/*
* bpf_xdp_adjust_head
*
*  Adjust (move) *xdp_md*\ **->data** by *delta* bytes. Note that
*  it is possible to use a negative value for *delta*. This helper
*  can be used to prepare the packet for pushing or popping
*  headers.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all
 checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
```

```
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_head)(struct xdp_md *xdp_md, int delta) = (void *) 44;

/*
* bpf_probe_read_str
*
*  Copy a NUL terminated string from an unsafe kernel address
*  *unsafe_ptr* to *dst*. See **bpf_probe_read_kernel_str**\ () for
*  more details.
*
*  Generally, use **bpf_probe_read_user_str**\ () or
*  **bpf_probe_read_kernel_str**\ () instead.
*
* Returns
*  On success, the strictly positive length of the string,
*  including the trailing NUL character. On error, a negative
*  value.
*/
static long (* const bpf_probe_read_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 45;

/*
* bpf_get_socket_cookie
*
*  If the **struct sk_buff** pointed by *skb* has a known socket,
*  retrieve the cookie
 (generated by the kernel) of this socket.
*  If no cookie has been set yet, generate a new cookie. Once
*  generated, the socket cookie remains stable for the life of the
*  socket. This helper can be useful for monitoring per socket
*  networking traffic statistics as it provides a global socket
*  identifier that can be assumed unique.
*
* Returns
*  A 8-byte long unique number on success, or 0 if the socket
*  field is missing inside *skb*.
*/
static __u64 (* const bpf_get_socket_cookie)(void *ctx) = (void *) 46;

/*
* bpf_get_socket_uid
*
*  Get the owner UID of the socked associated to *skb*.
*
* Returns
*  The owner UID of the socket associated to *skb*. If the socket
```

```
*  is **NULL**, or if it is not a full socket (i.e. if it is a
*  time-wait or a request socket instead), **overflowuid** value
*  is returned (note that **overflowuid** might also be the actual
*  UID value for the socket).
*/
static __u32 (* const bpf_get_socket_uid)(struct __sk_buff *skb) =
 (void *) 47;

/*
* bpf_set_hash
*
*  Set the full hash for *skb* (set the field *skb*\ **->hash**)
*  to value *hash*.
*
* Returns
*  0
*/
static long (* const bpf_set_hash)(struct __sk_buff *skb, __u32 hash) = (void *) 48;

/*
* bpf_setsockopt
*
*  Emulate a call to **setsockopt()** on the socket associated to
*  *bpf_socket*, which must be a full socket. The *level* at
*  which the option resides and the name *optname* of the option
*  must be specified, see **setsockopt(2)** for more information.
*  The option value of length *optlen* is pointed by *optval*.
*
*  *bpf_socket* should be one of the following:
*
*  * **struct bpf_sock_ops** for **BPF_PROG_TYPE_SOCK_OPS**.
*  * **struct bpf_sock_addr** for **BPF_CGROUP_INET4_CONNECT**,
*    **BPF_CGROUP_INET6_CONNECT** and **BPF_CGROUP_UNIX_CONNECT**.
*
*  This helper actually implements a subset of **setsockopt()**.
*  It supports the following *level*\ s:
*
*  * **SOL_SOCKET**, which supports the following *optname*\
 s:
*    **SO_RCVBUF**, **SO_SNDBUF**, **SO_MAX_PACING_RATE**,
*    **SO_PRIORITY**, **SO_RCVLOWAT**, **SO_MARK**,
*    **SO_BINDTODEVICE**, **SO_KEEPALIVE**, **SO_REUSEADDR**,
*    **SO_REUSEPORT**, **SO_BINDTOIFINDEX**, **SO_TXREHASH**.
*  * **IPPROTO_TCP**, which supports the following *optname*\ s:
*    **TCP_CONGESTION**, **TCP_BPF_IW**,
*    **TCP_BPF_SNDCWND_CLAMP**, **TCP_SAVE_SYN**,
*    **TCP_KEEPIDLE**, **TCP_KEEPINTVL**, **TCP_KEEPCNT**,
*    **TCP_SYNCNT**, **TCP_USER_TIMEOUT**, **TCP_NOTSENT_LOWAT**,
```

```
*    **TCP_NODELAY**, **TCP_MAXSEG**, **TCP_WINDOW_CLAMP**,
*    **TCP_THIN_LINEAR_TIMEOUTS**, **TCP_BPF_DELACK_MAX**,
*    **TCP_BPF_RTO_MIN**.
*  * **IPPROTO_IP**, which supports *optname* **IP_TOS**.
*  * **IPPROTO_IPV6**, which supports the following *optname*\ s:
*    **IPV6_TCLASS**, **IPV6_AUTOFLOWLABEL**.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_setsockopt)(void *bpf_socket, int level,
 int optname, void *optval, int optlen) = (void *) 49;

/*
* bpf_skb_adjust_room
*
*  Grow or shrink the room for data in the packet associated to
*  *skb* by *len_diff*, and according to the selected *mode*.
*
*  By default, the helper will reset any offloaded checksum
*  indicator of the skb to CHECKSUM_NONE. This can be avoided
*  by the following flag:
*
*  * **BPF_F_ADJ_ROOM_NO_CSUM_RESET**: Do not reset offloaded
*    checksum data of the skb to CHECKSUM_NONE.
*
*  There are two supported modes at this time:
*
*  * **BPF_ADJ_ROOM_MAC**: Adjust room at the mac layer
*    (room space is added or removed between the layer 2 and
*    layer 3 headers).
*
*  * **BPF_ADJ_ROOM_NET**: Adjust room at the network layer
*    (room space is added or removed between the layer 3 and
*    layer 4 headers).
*
*  The following flags are supported at this time:
*
*  * **BPF_F_ADJ_ROOM_FIXED_GSO**: Do not adjust gso_size.
*    Adjusting mss in this way is not allowed for datagrams.
 *
*  * **BPF_F_ADJ_ROOM_ENCAP_L3_IPV4**,
*    **BPF_F_ADJ_ROOM_ENCAP_L3_IPV6**:
*    Any new space is reserved to hold a tunnel header.
*    Configure skb offsets and other fields accordingly.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L4_GRE**,
*    **BPF_F_ADJ_ROOM_ENCAP_L4_UDP**:
```

```
*    Use with ENCAP_L3 flags to further specify the tunnel type.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L2**\ (*len*):
*    Use with ENCAP_L3/L4 flags to further specify the tunnel
*    type; *len* is the length of the inner MAC header.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L2_ETH**:
*    Use with BPF_F_ADJ_ROOM_ENCAP_L2 flag to further specify the
*    L2 type as Ethernet.
*
*  * **BPF_F_ADJ_ROOM_DECAP_L3_IPV4**,
*    **BPF_F_ADJ_ROOM_DECAP_L3_IPV6**:
*    Indicate the new IP header version after decapsulating the outer
*    IP header. Used when the inner and outer IP versions are different.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all
 checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_adjust_room)(struct __sk_buff *skb, __s32 len_diff, __u32 mode, __u64 flags) = (void
*) 50;

/*
* bpf_redirect_map
*
*  Redirect the packet to the endpoint referenced by *map* at
*  index *key*. Depending on its type, this *map* can contain
*  references to net devices (for forwarding packets through other
*  ports), or to CPUs (for redirecting XDP frames to another CPU;
*  but this is only implemented for native XDP (with driver
*  support) as of this writing).
*
*  The lower two bits of *flags* are used as the return code if
*  the map lookup fails. This is so that the return value can be
*  one of the XDP program return codes up to **XDP_TX**, as chosen
*  by the caller. The higher bits of *flags*
 can be set to
*  BPF_F_BROADCAST or BPF_F_EXCLUDE_INGRESS as defined below.
*
*  With BPF_F_BROADCAST the packet will be broadcasted to all the
*  interfaces in the map, with BPF_F_EXCLUDE_INGRESS the ingress
*  interface will be excluded when do broadcasting.
```

```
*
*  See also **bpf_redirect**\ (), which only supports redirecting
*  to an ifindex, but doesn't require a map to do so.
*
* Returns
*  **XDP_REDIRECT** on success, or the value of the two lower bits
*  of the *flags* argument on error.
*/
static long (* const bpf_redirect_map)(void *map, __u64 key, __u64 flags) = (void *) 51;

/*
* bpf_sk_redirect_map
*
*  Redirect the packet to the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKMAP**) at index *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported
 for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_sk_redirect_map)(struct __sk_buff *skb, void *map, __u32 key, __u64 flags) = (void *) 52;

/*
* bpf_sock_map_update
*
*  Add an entry to, or update a *map* referencing sockets. The
*  *skops* is used as a new value for the entry associated to
*  *key*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  If the *map* has eBPF programs (parser and verdict), those will
*  be inherited by the socket being added. If the socket is
*  already attached to eBPF programs, this results in an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sock_map_update)(struct bpf_sock_ops *skops, void *map, void *key, __u64 flags) = (void
```

```
*)
 53;

/*
* bpf_xdp_adjust_meta
*
*  Adjust the address pointed by *xdp_md*\ **->data_meta** by
*  *delta* (which can be positive or negative). Note that this
*  operation modifies the address stored in *xdp_md*\ **->data**,
*  so the latter must be loaded only after the helper has been
*  called.
*
*  The use of *xdp_md*\ **->data_meta** is optional and programs
*  are not required to use it. The rationale is that when the
*  packet is processed with XDP (e.g. as DoS filter), it is
*  possible to push further meta data along with it before passing
*  to the stack, and to give the guarantee that an ingress eBPF
*  program attached as a TC classifier on the same device can pick
*  this up for further post-processing. Since TC works with socket
*  buffers, it remains possible to set from XDP the **mark** or
*  **priority** pointers, or other pointers for the socket buffer.
*  Having this scratch space generic and programmable allows for
*  more flexibility as the user is
 free to store whatever meta
*  data they need.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_meta)(struct xdp_md *xdp_md, int delta) = (void *) 54;

/*
* bpf_perf_event_read_value
*
*  Read the value of a perf event counter, and store it into *buf*
*  of size *buf_size*. This helper relies on a *map* of type
*  **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. The nature of the perf event
*  counter is selected when *map* is updated with perf event file
*  descriptors. The *map* is an array whose size is the number of
*  available CPUs, and each cell contains a value relative to one
*  CPU. The value to retrieve is indicated by *flags*, that
```

```
 *  contains the index of the CPU to look up, masked with
*  **BPF_F_INDEX_MASK**. Alternatively, *flags* can be set to
*  **BPF_F_CURRENT_CPU** to indicate that the value for the
*  current CPU should be retrieved.
*
*  This helper behaves in a way close to
*  **bpf_perf_event_read**\ () helper, save that instead of
*  just returning the value observed, it fills the *buf*
*  structure. This allows for additional data to be retrieved: in
*  particular, the enabled and running times (in *buf*\
*  **->enabled** and *buf*\ **->running**, respectively) are
*  copied. In general, **bpf_perf_event_read_value**\ () is
*  recommended over **bpf_perf_event_read**\ (), which has some
*  ABI issues and provides fewer functionalities.
*
*  These values are interesting, because hardware PMU (Performance
*  Monitoring Unit) counters are limited resources. When there are
*  more PMU based perf events opened than available counters,
*  kernel will multiplex these events so each event
 gets certain
*  percentage (but not all) of the PMU time. In case that
*  multiplexing happens, the number of samples or counter value
*  will not reflect the case compared to when no multiplexing
*  occurs. This makes comparison between different runs difficult.
*  Typically, the counter value should be normalized before
*  comparing to other experiments. The usual normalization is done
*  as follows.
*
*  ::
*
*   normalized_counter = counter * t_enabled / t_running
*
*  Where t_enabled is the time enabled for event and t_running is
*  the time running for event since last normalization. The
*  enabled and running times are accumulated since the perf event
*  open. To achieve scaling factor between two invocations of an
*  eBPF program, users can use CPU id as the key (which is
*  typical for perf array usage model) to remember the previous
*  value and do the calculation inside the eBPF program.
*
* Returns
*  0 on success, or a negative error in case of failure.
 */
static long (* const bpf_perf_event_read_value)(void *map, __u64 flags, struct bpf_perf_event_value *buf, __u32
buf_size) = (void *) 55;

/*
* bpf_perf_prog_read_value
```

```
*
*  For an eBPF program attached to a perf event, retrieve the
*  value of the event counter associated to *ctx* and store it in
*  the structure pointed by *buf* and of size *buf_size*. Enabled
*  and running times are also stored in the structure (see
*  description of helper **bpf_perf_event_read_value**\ () for
*  more details).
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_perf_prog_read_value)(struct bpf_perf_event_data *ctx, struct bpf_perf_event_value *buf,
__u32 buf_size) = (void *) 56;

/*
* bpf_getsockopt
*
*  Emulate a call to **getsockopt()** on the socket associated to
*  *bpf_socket*, which must be a full socket. The *level* at
*  which the option resides and the name *optname* of the option
*  must be specified, see **getsockopt(2)**
 for more information.
*  The retrieved value is stored in the structure pointed by
*  *opval* and of length *optlen*.
*
*  *bpf_socket* should be one of the following:
*
*  * **struct bpf_sock_ops** for **BPF_PROG_TYPE_SOCK_OPS**.
*  * **struct bpf_sock_addr** for **BPF_CGROUP_INET4_CONNECT**,
*    **BPF_CGROUP_INET6_CONNECT** and **BPF_CGROUP_UNIX_CONNECT**.
*
*  This helper actually implements a subset of **getsockopt()**.
*  It supports the same set of *optname*\ s that is supported by
*  the **bpf_setsockopt**\ () helper.  The exceptions are
*  **TCP_BPF_*** is **bpf_setsockopt**\ () only and
*  **TCP_SAVED_SYN** is **bpf_getsockopt**\ () only.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_getsockopt)(void *bpf_socket, int level, int optname, void *optval, int optlen) = (void *) 57;

/*
* bpf_override_return
*
*  Used for error injection, this helper uses kprobes to override
*  the return value of the probed
```

```
 function, and to set it to *rc*.
*  The first argument is the context *regs* on which the kprobe
*  works.
*
*  This helper works by setting the PC (program counter)
*  to an override function which is run in place of the original
*  probed function. This means the probed function is not run at
*  all. The replacement function just returns with the required
*  value.
*
*  This helper has security implications, and thus is subject to
*  restrictions. It is only available if the kernel was compiled
*  with the **CONFIG_BPF_KPROBE_OVERRIDE** configuration
*  option, and in this case it only works on functions tagged with
*  **ALLOW_ERROR_INJECTION** in the kernel code.
*
*  Also, the helper is only available for the architectures having
*  the CONFIG_FUNCTION_ERROR_INJECTION option. As of this writing,
*  x86 architecture is the only one to support this feature.
*
* Returns
*  0
*/
static long (* const bpf_override_return)(struct pt_regs *regs, __u64 rc) = (void
 *) 58;

/*
* bpf_sock_ops_cb_flags_set
*
*  Attempt to set the value of the **bpf_sock_ops_cb_flags** field
*  for the full TCP socket associated to *bpf_sock_ops* to
*  *argval*.
*
*  The primary use of this field is to determine if there should
*  be calls to eBPF programs of type
*  **BPF_PROG_TYPE_SOCK_OPS** at various points in the TCP
*  code. A program of the same type can change its value, per
*  connection and as necessary, when the connection is
*  established. This field is directly accessible for reading, but
*  this helper must be used for updates in order to return an
*  error if an eBPF program tries to set a callback that is not
*  supported in the current kernel.
*
*  *argval* is a flag array which can combine these flags:
*
*  * **BPF_SOCK_OPS_RTO_CB_FLAG** (retransmission time out)
*  * **BPF_SOCK_OPS_RETRANS_CB_FLAG** (retransmission)
*  * **BPF_SOCK_OPS_STATE_CB_FLAG** (TCP state change)
```

```
*  * **BPF_SOCK_OPS_RTT_CB_FLAG** (every RTT)
*
*  Therefore,
 this function can be used to clear a callback flag by
*  setting the appropriate bit to zero. e.g. to disable the RTO
*  callback:
*
*  **bpf_sock_ops_cb_flags_set(bpf_sock,**
*   **bpf_sock->bpf_sock_ops_cb_flags & ~BPF_SOCK_OPS_RTO_CB_FLAG)**
*
*  Here are some examples of where one could call such eBPF
*  program:
*
*  * When RTO fires.
*  * When a packet is retransmitted.
*  * When the connection terminates.
*  * When a packet is sent.
*  * When a packet is received.
*
* Returns
*  Code **-EINVAL** if the socket is not a full TCP socket;
*  otherwise, a positive number containing the bits that could not
*  be set is returned (which comes down to 0 if all bits were set
*  as required).
*/
static long (* const bpf_sock_ops_cb_flags_set)(struct bpf_sock_ops *bpf_sock, int argval) = (void *) 59;

/*
* bpf_msg_redirect_map
*
*  This helper is used in programs implementing policies at the
*  socket level. If the message *msg* is allowed to pass (i.e. if
 *  the verdict eBPF program returns **SK_PASS**), redirect it to
*  the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKMAP**) at index *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_msg_redirect_map)(struct sk_msg_md *msg, void *map, __u32 key, __u64 flags) = (void *)
60;

/*
* bpf_msg_apply_bytes
```

```
*
*  For socket policies, apply the verdict of the eBPF program to
*  the next *bytes* (number of bytes) of message *msg*.
*
*  For example, this helper can be used in the following cases:
*
*  * A single **sendmsg**\ () or **sendfile**\ () system call
*    contains multiple logical messages that the eBPF program is
*    supposed to read and for which
 it should apply a verdict.
*  * An eBPF program only cares to read the first *bytes* of a
*    *msg*. If the message has a large payload, then setting up
*    and calling the eBPF program repeatedly for all bytes, even
*    though the verdict is already known, would create unnecessary
*    overhead.
*
*  When called from within an eBPF program, the helper sets a
*  counter internal to the BPF infrastructure, that is used to
*  apply the last verdict to the next *bytes*. If *bytes* is
*  smaller than the current data being processed from a
*  **sendmsg**\ () or **sendfile**\ () system call, the first
*  *bytes* will be sent and the eBPF program will be re-run with
*  the pointer for start of data pointing to byte number *bytes*
*  **+ 1**. If *bytes* is larger than the current data being
*  processed, then the eBPF verdict will be applied to multiple
*  **sendmsg**\ () or **sendfile**\ () calls until *bytes* are
*  consumed.
*
*  Note that if a socket closes with the
 internal counter holding
*  a non-zero value, this is not a problem because data is not
*  being buffered for *bytes* and is sent as it is received.
*
* Returns
*  0
*/
static long (* const bpf_msg_apply_bytes)(struct sk_msg_md *msg, __u32 bytes) = (void *) 61;

/*
* bpf_msg_cork_bytes
*
*  For socket policies, prevent the execution of the verdict eBPF
*  program for message *msg* until *bytes* (byte number) have been
*  accumulated.
*
*  This can be used when one needs a specific number of bytes
*  before a verdict can be assigned, even if the data spans
*  multiple **sendmsg**\ () or **sendfile**\ () calls. The extreme
```

```
*  case would be a user calling **sendmsg**\ () repeatedly with
*  1-byte long message segments. Obviously, this is bad for
*  performance, but it is still valid. If the eBPF program needs
*  *bytes* bytes to validate a header, this helper can be used to
*  prevent the eBPF program to be called again until *bytes* have
*  been accumulated.
*
* Returns
 *  0
*/
static long (* const bpf_msg_cork_bytes)(struct sk_msg_md *msg, __u32 bytes) = (void *) 62;

/*
* bpf_msg_pull_data
*
*  For socket policies, pull in non-linear data from user space
*  for *msg* and set pointers *msg*\ **->data** and *msg*\
*  **->data_end** to *start* and *end* bytes offsets into *msg*,
*  respectively.
*
*  If a program of type **BPF_PROG_TYPE_SK_MSG** is run on a
*  *msg* it can only parse data that the (**data**, **data_end**)
*  pointers have already consumed. For **sendmsg**\ () hooks this
*  is likely the first scatterlist element. But for calls relying
*  on the **sendpage** handler (e.g. **sendfile**\ ()) this will
*  be the range (**0**, **0**) because the data is shared with
*  user space and by default the objective is to avoid allowing
*  user space to modify data while (or after) eBPF verdict is
*  being decided. This helper can be used to pull in data and to
*  set the start and end pointer to given values. Data will be
 *  copied if necessary (i.e. if data was not linear and if start
*  and end pointers do not point to the same chunk).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_pull_data)(struct sk_msg_md *msg, __u32 start, __u32 end, __u64 flags) = (void *)
63;
```

```
/*
* bpf_bind
*
*  Bind the socket associated to *ctx* to the address pointed by
*  *addr*, of length *addr_len*. This allows for making outgoing
*  connection from the desired IP address, which can be useful for
*  example when all processes inside a cgroup should use one
*  single IP address on a host
 that has multiple IP configured.
*
*  This helper works for IPv4 and IPv6, TCP and UDP sockets. The
*  domain (*addr*\ **->sa_family**) must be **AF_INET** (or
*  **AF_INET6**). It's advised to pass zero port (**sin_port**
*  or **sin6_port**) which triggers IP_BIND_ADDRESS_NO_PORT-like
*  behavior and lets the kernel efficiently pick up an unused
*  port as long as 4-tuple is unique. Passing non-zero port might
*  lead to degraded performance.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_bind)(struct bpf_sock_addr *ctx, struct sockaddr *addr, int addr_len) = (void *) 64;

/*
* bpf_xdp_adjust_tail
*
*  Adjust (move) *xdp_md*\ **->data_end** by *delta* bytes. It is
*  possible to both shrink and grow the packet tail.
*  Shrink done via *delta* being a negative integer.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously
 done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_tail)(struct xdp_md *xdp_md, int delta) = (void *) 65;

/*
* bpf_skb_get_xfrm_state
*
*  Retrieve the XFRM state (IP transform framework, see also
*  **ip-xfrm(8)**) at *index* in XFRM "security path" for *skb*.
*
```

```
*  The retrieved value is stored in the **struct bpf_xfrm_state**
*  pointed by *xfrm_state* and of length *size*.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_XFRM** configuration option.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_get_xfrm_state)(struct __sk_buff *skb, __u32 index, struct bpf_xfrm_state *xfrm_state,
__u32 size, __u64
 flags) = (void *) 66;

/*
* bpf_get_stack
*
*  Return a user or a kernel stack in bpf program provided buffer.
*  To achieve this, the helper needs *ctx*, which is a pointer
*  to the context on which the tracing program is executed.
*  To store the stacktrace, the bpf program provides *buf* with
*  a nonnegative *size*.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can be used to set
*  the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*  **BPF_F_USER_BUILD_ID**
*   Collect (build_id, file_offset) instead of ips for user
*   stack, only valid if **BPF_F_USER_STACK** is also
*   specified.
*
*   *file_offset* is an offset relative to the beginning
*   of the executable or shared object file backing the vma
*   which the *ip* falls in. It is *not* an offset relative
*   to that object's base address. Accordingly,
 it must be
*   adjusted by adding (sh_addr - sh_offset), where
*   sh_{addr,offset} correspond to the executable section
*   containing *file_offset* in the object, for comparisons
*   to symbols' st_value to be valid.
*
*  **bpf_get_stack**\ () can collect up to
```

```
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames, subject
*  to sufficient large buffer size. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The non-negative copied *buf* length equal to or less than
*  *size* on success, or a negative error in case of failure.
*/
static long (* const bpf_get_stack)(void *ctx, void *buf, __u32 size, __u64 flags) = (void *) 67;

/*
* bpf_skb_load_bytes_relative
*
*  This helper is similar to **bpf_skb_load_bytes**\ () in that
 *  it provides an easy way to load *len* bytes from *offset*
*  from the packet associated to *skb*, into the buffer pointed
*  by *to*. The difference to **bpf_skb_load_bytes**\ () is that
*  a fifth argument *start_header* exists in order to select a
*  base offset to start from. *start_header* can be one of:
*
*  **BPF_HDR_START_MAC**
*   Base offset to load data from is *skb*'s mac header.
*  **BPF_HDR_START_NET**
*   Base offset to load data from is *skb*'s network header.
*
*  In general, "direct packet access" is the preferred method to
*  access packet data, however, this helper is in particular useful
*  in socket filters where *skb*\ **->data** does not always point
*  to the start of the mac header and where "direct packet access"
*  is not available.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_load_bytes_relative)(const void *skb, __u32 offset, void *to, __u32 len, __u32
start_header) = (void *) 68;

/*
 * bpf_fib_lookup
*
*  Do FIB lookup in kernel tables using parameters in *params*.
*  If lookup is successful and result shows packet is to be
```

```
*  forwarded, the neighbor tables are searched for the nexthop.
*  If successful (ie., FIB lookup shows forwarding and nexthop
*  is resolved), the nexthop address is returned in ipv4_dst
*  or ipv6_dst based on family, smac is set to mac address of
*  egress device, dmac is set to nexthop mac address, rt_metric
*  is set to metric from route (IPv4/IPv6 only), and ifindex
*  is set to the device index of the nexthop from the FIB lookup.
*
*  *plen* argument is the size of the passed in struct.
*  *flags* argument can be a combination of one or more of the
*  following values:
*
*  **BPF_FIB_LOOKUP_DIRECT**
*   Do a direct table lookup vs full lookup using FIB
*   rules.
*  **BPF_FIB_LOOKUP_TBID**
*   Used with BPF_FIB_LOOKUP_DIRECT.
*   Use the routing table ID present in *params*->tbid
*   for the fib lookup.
*  **BPF_FIB_LOOKUP_OUTPUT**
 *   Perform lookup from an egress perspective (default is
*   ingress).
*  **BPF_FIB_LOOKUP_SKIP_NEIGH**
*   Skip the neighbour table lookup. *params*->dmac
*   and *params*->smac will not be set as output. A common
*   use case is to call **bpf_redirect_neigh**\ () after
*   doing **bpf_fib_lookup**\ ().
*  **BPF_FIB_LOOKUP_SRC**
*   Derive and set source IP addr in *params*->ipv{4,6}_src
*   for the nexthop. If the src addr cannot be derived,
*   **BPF_FIB_LKUP_RET_NO_SRC_ADDR** is returned. In this
*   case, *params*->dmac and *params*->smac are not set either.
*
*  *ctx* is either **struct xdp_md** for XDP programs or
*  **struct sk_buff** tc cls_act programs.
*
* Returns
*  * < 0 if any input argument is invalid
*  *   0 on success (packet is forwarded, nexthop neighbor exists)
*  * > 0 one of **BPF_FIB_LKUP_RET_** codes explaining why the
*    packet is not forwarded or needs assist from full stack
*
*  If lookup fails with BPF_FIB_LKUP_RET_FRAG_NEEDED,
 then the MTU
*  was exceeded and output params->mtu_result contains the MTU.
*/
static long (* const bpf_fib_lookup)(void *ctx, struct bpf_fib_lookup *params, int plen, __u32 flags) = (void *) 69;
```

```
/*
* bpf_sock_hash_update
*
*  Add an entry to, or update a sockhash *map* referencing sockets.
*  The *skops* is used as a new value for the entry associated to
*  *key*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  If the *map* has eBPF programs (parser and verdict), those will
*  be inherited by the socket being added. If the socket is
*  already attached to eBPF programs, this results in an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sock_hash_update)(struct bpf_sock_ops *skops, void *map, void
 *key, __u64 flags) = (void *) 70;

/*
* bpf_msg_redirect_hash
*
*  This helper is used in programs implementing policies at the
*  socket level. If the message *msg* is allowed to pass (i.e. if
*  the verdict eBPF program returns **SK_PASS**), redirect it to
*  the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKHASH**) using hash *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_msg_redirect_hash)(struct sk_msg_md *msg, void *map, void *key, __u64 flags) = (void *)
71;

/*
* bpf_sk_redirect_hash
*
*  This helper is used in programs implementing policies at the
*  skb socket level. If the sk_buff *skb* is allowed to pass (i.e.
```

```
*  if the verdict eBPF
 program returns **SK_PASS**), redirect it
*  to the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKHASH**) using hash *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_sk_redirect_hash)(struct __sk_buff *skb, void *map, void *key, __u64 flags) = (void *) 72;

/*
* bpf_lwt_push_encap
*
*  Encapsulate the packet associated to *skb* within a Layer 3
*  protocol header. This header is provided in the buffer at
*  address *hdr*, with *len* its size in bytes. *type* indicates
*  the protocol of the header and can be one of:
*
*  **BPF_LWT_ENCAP_SEG6**
*   IPv6 encapsulation with Segment Routing Header
*   (**struct ipv6_sr_hdr**). *hdr* only contains the SRH,
 *   the IPv6 header is computed by the kernel.
*  **BPF_LWT_ENCAP_SEG6_INLINE**
*   Only works if *skb* contains an IPv6 packet. Insert a
*   Segment Routing Header (**struct ipv6_sr_hdr**) inside
*   the IPv6 header.
*  **BPF_LWT_ENCAP_IP**
*   IP encapsulation (GRE/GUE/IPIP/etc). The outer header
*   must be IPv4 or IPv6, followed by zero or more
*   additional headers, up to **LWT_BPF_MAX_HEADROOM**
*   total bytes in all prepended headers. Please note that
*   if **skb_is_gso**\ (*skb*) is true, no more than two
*   headers can be prepended, and the inner header, if
*   present, should be either GRE or UDP/GUE.
*
*  **BPF_LWT_ENCAP_SEG6**\ \* types can be called by BPF programs
*  of type **BPF_PROG_TYPE_LWT_IN**; **BPF_LWT_ENCAP_IP** type can
*  be called by bpf programs of types **BPF_PROG_TYPE_LWT_IN** and
*  **BPF_PROG_TYPE_LWT_XMIT**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on
 pointers
*  previously done by the verifier are invalidated and must be
```

```
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_push_encap)(struct __sk_buff *skb, __u32 type, void *hdr, __u32 len) = (void *) 73;

/*
* bpf_lwt_seg6_store_bytes
*
*  Store *len* bytes from address *from* into the packet
*  associated to *skb*, at *offset*. Only the flags, tag and TLVs
*  inside the outermost IPv6 Segment Routing Header can be
*  modified through this helper.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_store_bytes)(struct
 __sk_buff *skb, __u32 offset, const void *from, __u32 len) = (void *) 74;

/*
* bpf_lwt_seg6_adjust_srh
*
*  Adjust the size allocated to TLVs in the outermost IPv6
*  Segment Routing Header contained in the packet associated to
*  *skb*, at position *offset* by *delta* bytes. Only offsets
*  after the segments are accepted. *delta* can be as well
*  positive (growing) as negative (shrinking).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_adjust_srh)(struct __sk_buff *skb, __u32 offset, __s32 delta) = (void *) 75;
```

```
/*
* bpf_lwt_seg6_action
*
*  Apply an IPv6 Segment Routing action of type *action* to the
 *  packet associated to *skb*. Each action takes a parameter
*  contained at address *param*, and of length *param_len* bytes.
*  *action* can be one of:
*
*  **SEG6_LOCAL_ACTION_END_X**
*   End.X action: Endpoint with Layer-3 cross-connect.
*   Type of *param*: **struct in6_addr**.
*  **SEG6_LOCAL_ACTION_END_T**
*   End.T action: Endpoint with specific IPv6 table lookup.
*   Type of *param*: **int**.
*  **SEG6_LOCAL_ACTION_END_B6**
*   End.B6 action: Endpoint bound to an SRv6 policy.
*   Type of *param*: **struct ipv6_sr_hdr**.
*  **SEG6_LOCAL_ACTION_END_B6_ENCAP**
*   End.B6.Encap action: Endpoint bound to an SRv6
*   encapsulation policy.
*   Type of *param*: **struct ipv6_sr_hdr**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
 *
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_action)(struct __sk_buff *skb, __u32 action, void *param, __u32 param_len) =
(void *) 76;

/*
* bpf_rc_repeat
*
*  This helper is used in programs implementing IR decoding, to
*  report a successfully decoded repeat key message. This delays
*  the generation of a key up event for previously generated
*  key down event.
*
*  Some IR protocols like NEC have a special IR message for
*  repeating last button, for when a button is held down.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
```

```
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_repeat)(void *ctx) = (void *) 77;

/*
* bpf_rc_keydown
*
*  This helper is used in programs implementing IR decoding, to
*  report a successfully decoded key
 press with *scancode*,
*  *toggle* value in the given *protocol*. The scancode will be
*  translated to a keycode using the rc keymap, and reported as
*  an input key down event. After a period a key up event is
*  generated. This period can be extended by calling either
*  **bpf_rc_keydown**\ () again with the same values, or calling
*  **bpf_rc_repeat**\ ().
*
*  Some protocols include a toggle bit, in case the button was
*  released and pressed again between consecutive scancodes.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  The *protocol* is the decoded protocol number (see
*  **enum rc_proto** for some predefined values).
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_keydown)(void *ctx, __u32 protocol, __u64 scancode, __u32 toggle) = (void *) 78;

/*
* bpf_skb_cgroup_id
*
*  Return
 the cgroup v2 id of the socket associated with the *skb*.
*  This is roughly similar to the **bpf_get_cgroup_classid**\ ()
*  helper for cgroup v1 by providing a tag resp. identifier that
*  can be matched on or used for map lookups e.g. to implement
```

```
*  policy. The cgroup v2 id of a given path in the hierarchy is
*  exposed in user space through the f_handle API in order to get
*  to the same 64-bit id.
*
*  This helper can be used on TC egress path, but not on ingress,
*  and is available only if the kernel was compiled with the
*  **CONFIG_SOCK_CGROUP_DATA** configuration option.
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_cgroup_id)(struct __sk_buff *skb) = (void *) 79;

/*
* bpf_get_current_cgroup_id
*
*  Get the current cgroup id based on the cgroup within which
*  the current task is running.
*
* Returns
*  A 64-bit integer containing the current cgroup id based
*  on the cgroup within which
 the current task is running.
*/
static __u64 (* const bpf_get_current_cgroup_id)(void) = (void *) 80;

/*
* bpf_get_local_storage
*
*  Get the pointer to the local storage area.
*  The type and the size of the local storage is defined
*  by the *map* argument.
*  The *flags* meaning is specific for each map type,
*  and has to be 0 for cgroup local storage.
*
*  Depending on the BPF program type, a local storage area
*  can be shared between multiple instances of the BPF program,
*  running simultaneously.
*
*  A user should care about the synchronization by himself.
*  For example, by using the **BPF_ATOMIC** instructions to alter
*  the shared data.
*
* Returns
*  A pointer to the local storage area.
*/
static void *(* const bpf_get_local_storage)(void *map, __u64 flags) = (void *) 81;
```

```
/*
* bpf_sk_select_reuseport
*
*  Select a **SO_REUSEPORT** socket from a
*  **BPF_MAP_TYPE_REUSEPORT_SOCKARRAY** *map*.
*  It checks the selected socket is matching the incoming
 *  request in the socket buffer.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sk_select_reuseport)(struct sk_reuseport_md *reuse, void *map, void *key, __u64 flags) =
(void *) 82;

/*
* bpf_skb_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of cgroup associated
*  with the *skb* at the *ancestor_level*.  The root cgroup is at
*  *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with *skb*, then return value will be same as that
*  of **bpf_skb_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with *skb*.
*
*  The format of returned id and helper limitations are same as in
*  **bpf_skb_cgroup_id**\ ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_ancestor_cgroup_id)(struct
 __sk_buff *skb, int ancestor_level) = (void *) 83;

/*
* bpf_sk_lookup_tcp
*
*  Look for TCP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  The *ctx* should point to the context of the program, such as
*  the skb or socket (depending on the hook in use). This is used
*  to determine the base network namespace for the lookup.
*
```

```
*  *tuple_size* must be one of:
*
*  **sizeof**\ (*tuple*\ **->ipv4**)
*   Look for an IPv4 socket.
*  **sizeof**\ (*tuple*\ **->ipv6**)
*   Look for an IPv6 socket.
*
*  If the *netns* is a negative signed 32-bit integer, then the
*  socket lookup table in the netns associated with the *ctx*
*  will be used. For the TC hooks, this is the netns of the device
*  in the skb. For socket hooks, this is the netns of the socket.
*  If *netns* is any other signed 32-bit value greater than or
 *  equal to zero then it specifies the ID of the netns relative to
*  the netns associated with the *ctx*. *netns* values beyond the
*  range of 32-bit integers are reserved for future use.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_sk_lookup_tcp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 84;

/*
* bpf_sk_lookup_udp
*
*  Look for UDP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  The
 *ctx* should point to the context of the program, such as
*  the skb or socket (depending on the hook in use). This is used
*  to determine the base network namespace for the lookup.
*
*  *tuple_size* must be one of:
*
*  **sizeof**\ (*tuple*\ **->ipv4**)
*   Look for an IPv4 socket.
*  **sizeof**\ (*tuple*\ **->ipv6**)
```

```
*   Look for an IPv6 socket.
*
*  If the *netns* is a negative signed 32-bit integer, then the
*  socket lookup table in the netns associated with the *ctx*
*  will be used. For the TC hooks, this is the netns of the device
*  in the skb. For socket hooks, this is the netns of the socket.
*  If *netns* is any other signed 32-bit value greater than or
*  equal to zero then it specifies the ID of the netns relative to
*  the netns associated with the *ctx*. *netns* values beyond the
*  range of 32-bit integers are reserved for future use.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  This helper is available
 only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_sk_lookup_udp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 85;

/*
* bpf_sk_release
*
*  Release the reference held by *sock*. *sock* must be a
*  non-**NULL** pointer that was returned from
*  **bpf_sk_lookup_xxx**\ ().
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sk_release)(void *sock) = (void *) 86;

/*
* bpf_map_push_elem
*
*  Push an element *value* in *map*. *flags* is one of:
*
*  **BPF_EXIST**
*   If the queue/stack is full, the oldest element is
*   removed to make room for this.
*
```

```
* Returns
*  0 on success, or
 a negative error in case of failure.
*/
static long (* const bpf_map_push_elem)(void *map, const void *value, __u64 flags) = (void *) 87;

/*
* bpf_map_pop_elem
*
*  Pop an element from *map*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_pop_elem)(void *map, void *value) = (void *) 88;

/*
* bpf_map_peek_elem
*
*  Get an element from *map* without removing it.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_peek_elem)(void *map, void *value) = (void *) 89;

/*
* bpf_msg_push_data
*
*  For socket policies, insert *len* bytes into *msg* at offset
*  *start*.
*
*  If a program of type **BPF_PROG_TYPE_SK_MSG** is run on a
*  *msg* it may want to insert metadata or options into the *msg*.
*  This can later be read and used by any of the lower layer BPF
*  hooks.
*
*  This helper may fail if under memory pressure (a malloc
*  fails) in these cases BPF programs
 will get an appropriate
*  error and BPF programs will need to handle them.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_push_data)(struct sk_msg_md *msg, __u32 start, __u32 len, __u64 flags) = (void *)
90;
```

```
/*
* bpf_msg_pop_data
*
*  Will remove *len* bytes from a *msg* starting at byte *start*.
*  This may result in **ENOMEM** errors under certain situations if
*  an allocation and copy are required due to a full ring buffer.
*  However, the helper will try to avoid doing the allocation
*  if possible. Other errors can occur if input parameters are
*  invalid either due to *start* byte not being valid part of *msg*
*  payload and/or *pop* value being to large.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_pop_data)(struct sk_msg_md *msg, __u32 start, __u32 len, __u64 flags) = (void *) 91;

/*
* bpf_rc_pointer_rel
*
*  This helper is used in programs implementing
 IR decoding, to
*  report a successfully decoded pointer movement.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_pointer_rel)(void *ctx, __s32 rel_x, __s32 rel_y) = (void *) 92;

/*
* bpf_spin_lock
*
*  Acquire a spinlock represented by the pointer *lock*, which is
*  stored as part of a value of a map. Taking the lock allows to
*  safely update the rest of the fields in that value. The
*  spinlock can (and must) later be released with a call to
*  **bpf_spin_unlock**\ (\ *lock*\ ).
*
*  Spinlocks in BPF programs come with a number of restrictions
*  and constraints:
*
*  * **bpf_spin_lock** objects are only allowed inside maps of
```

```
*    types **BPF_MAP_TYPE_HASH** and **BPF_MAP_TYPE_ARRAY** (this
*    list could be extended in the future).
 *  * BTF description of the map is mandatory.
*  * The BPF program can take ONE lock at a time, since taking two
*    or more could cause dead locks.
*  * Only one **struct bpf_spin_lock** is allowed per map element.
*  * When the lock is taken, calls (either BPF to BPF or helpers)
*    are not allowed.
*  * The **BPF_LD_ABS** and **BPF_LD_IND** instructions are not
*    allowed inside a spinlock-ed region.
*  * The BPF program MUST call **bpf_spin_unlock**\ () to release
*    the lock, on all execution paths, before it returns.
*  * The BPF program can access **struct bpf_spin_lock** only via
*    the **bpf_spin_lock**\ () and **bpf_spin_unlock**\ ()
*    helpers. Loading or storing data into the **struct
*    bpf_spin_lock** *lock*\ **;** field of a map is not allowed.
*  * To use the **bpf_spin_lock**\ () helper, the BTF description
*    of the map value must be a struct and have **struct
*    bpf_spin_lock** *anyname*\ **;** field at the top level.
*    Nested
 lock inside another struct is not allowed.
*  * The **struct bpf_spin_lock** *lock* field in a map value must
*    be aligned on a multiple of 4 bytes in that value.
*  * Syscall with command **BPF_MAP_LOOKUP_ELEM** does not copy
*    the **bpf_spin_lock** field to user space.
*  * Syscall with command **BPF_MAP_UPDATE_ELEM**, or update from
*    a BPF program, do not update the **bpf_spin_lock** field.
*  * **bpf_spin_lock** cannot be on the stack or inside a
*    networking packet (it can only be inside of a map values).
*  * **bpf_spin_lock** is available to root only.
*  * Tracing programs and socket filter programs cannot use
*    **bpf_spin_lock**\ () due to insufficient preemption checks
*    (but this may change in the future).
*  * **bpf_spin_lock** is not allowed in inner maps of map-in-map.
*
* Returns
*  0
*/
static long (* const bpf_spin_lock)(struct bpf_spin_lock *lock) = (void *) 93;

/*
* bpf_spin_unlock
*
*  Release the *lock* previously locked
 by a call to
*  **bpf_spin_lock**\ (\ *lock*\ ).
*
* Returns
```

```
*  0
*/
static long (* const bpf_spin_unlock)(struct bpf_spin_lock *lock) = (void *) 94;

/*
* bpf_sk_fullsock
*
*  This helper gets a **struct bpf_sock** pointer such
*  that all the fields in this **bpf_sock** can be accessed.
*
* Returns
*  A **struct bpf_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_sock *(* const bpf_sk_fullsock)(struct bpf_sock *sk) = (void *) 95;

/*
* bpf_tcp_sock
*
*  This helper gets a **struct bpf_tcp_sock** pointer from a
*  **struct bpf_sock** pointer.
*
* Returns
*  A **struct bpf_tcp_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_tcp_sock *(* const bpf_tcp_sock)(struct bpf_sock *sk) = (void *) 96;

/*
* bpf_skb_ecn_set_ce
*
*  Set ECN (Explicit Congestion Notification) field of IP header
*  to **CE** (Congestion Encountered) if current value is **ECT**
*  (ECN Capable Transport). Otherwise, do nothing.
 Works with IPv6
*  and IPv4.
*
* Returns
*  1 if the **CE** flag is set (either by the current helper call
*  or because it was already present), 0 if it is not set.
*/
static long (* const bpf_skb_ecn_set_ce)(struct __sk_buff *skb) = (void *) 97;

/*
* bpf_get_listener_sock
*
*  Return a **struct bpf_sock** pointer in **TCP_LISTEN** state.
*  **bpf_sk_release**\ () is unnecessary and not allowed.
```

```
*
* Returns
*  A **struct bpf_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_sock *(* const bpf_get_listener_sock)(struct bpf_sock *sk) = (void *) 98;

/*
* bpf_skc_lookup_tcp
*
*  Look for TCP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  This function is identical to **bpf_sk_lookup_tcp**\ (), except
*  that it also returns timewait or request sockets. Use
*  **bpf_sk_fullsock**\ () or **bpf_tcp_sock**\
 () to access the
*  full structure.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_skc_lookup_tcp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 99;

/*
* bpf_tcp_check_syncookie
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK for
*  the listening socket in *sk*.
*
*  *iph* points to the start of the IPv4 or IPv6 header, while
*  *iph_len* contains **sizeof**\ (**struct iphdr**) or
*  **sizeof**\ (**struct ipv6hdr**).
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
```

```
 *  0 if *iph* and *th* are a valid SYN cookie ACK, or a negative
*  error otherwise.
*/
static long (* const bpf_tcp_check_syncookie)(void *sk, void *iph, __u32 iph_len, struct tcphdr *th, __u32 th_len)
= (void *) 100;

/*
* bpf_sysctl_get_name
*
*  Get name of sysctl in /proc/sys/ and copy it into provided by
*  program buffer *buf* of size *buf_len*.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
*  If *flags* is zero, full name (e.g. "net/ipv4/tcp_mem") is
*  copied. Use **BPF_F_SYSCTL_BASE_NAME** flag to copy base name
*  only (e.g. "tcp_mem").
*
* Returns
*  Number of character copied (not including the trailing NUL).
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*/
static long (* const bpf_sysctl_get_name)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len, __u64 flags) =
(void *) 101;

/*
* bpf_sysctl_get_current_value
*
*  Get current value of sysctl as it is presented in
 /proc/sys
*  (incl. newline, etc), and copy it as a string into provided
*  by program buffer *buf* of size *buf_len*.
*
*  The whole value is copied, no matter what file position user
*  space issued e.g. sys_read at.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
* Returns
*  Number of character copied (not including the trailing NUL).
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*
*  **-EINVAL** if current value was unavailable, e.g. because
*  sysctl is uninitialized and read returns -EIO for it.
```

```
*/
static long (* const bpf_sysctl_get_current_value)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len) = (void
*) 102;

/*
* bpf_sysctl_get_new_value
*
*  Get new value being written by user space to sysctl (before
*  the actual write happens) and copy it as a string into
*  provided by program buffer *buf* of size *buf_len*.
*
*  User space may write new value at file position >
 0.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
* Returns
*  Number of character copied (not including the trailing NUL).
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*
*  **-EINVAL** if sysctl is being read.
*/
static long (* const bpf_sysctl_get_new_value)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len) = (void *)
103;

/*
* bpf_sysctl_set_new_value
*
*  Override new value being written by user space to sysctl with
*  value provided by program in buffer *buf* of size *buf_len*.
*
*  *buf* should contain a string in same form as provided by user
*  space on sysctl write.
*
*  User space may write new value at file position > 0. To override
*  the whole sysctl value file position should be set to zero.
*
* Returns
*  0 on success.
*
*  **-E2BIG** if the *buf_len* is too big.
*
*  **-EINVAL** if sysctl is being read.
*/
static long (* const bpf_sysctl_set_new_value)(struct
```

```
 bpf_sysctl *ctx, const char *buf, unsigned long buf_len) = (void *) 104;

/*
* bpf_strtol
*
*  Convert the initial part of the string from buffer *buf* of
*  size *buf_len* to a long integer according to the given base
*  and save the result in *res*.
*
*  The string may begin with an arbitrary amount of white space
*  (as determined by **isspace**\ (3)) followed by a single
*  optional '**-**' sign.
*
*  Five least significant bits of *flags* encode base, other bits
*  are currently unused.
*
*  Base must be either 8, 10, 16 or 0 to detect it automatically
*  similar to user space **strtol**\ (3).
*
* Returns
*  Number of characters consumed on success. Must be positive but
*  no more than *buf_len*.
*
*  **-EINVAL** if no valid digits were found or unsupported base
*  was provided.
*
*  **-ERANGE** if resulting value was out of range.
*/
static long (* const bpf_strtol)(const char *buf, unsigned long buf_len, __u64 flags, long *res) = (void *) 105;

/*
*
 bpf_strtoul
*
*  Convert the initial part of the string from buffer *buf* of
*  size *buf_len* to an unsigned long integer according to the
*  given base and save the result in *res*.
*
*  The string may begin with an arbitrary amount of white space
*  (as determined by **isspace**\ (3)).
*
*  Five least significant bits of *flags* encode base, other bits
*  are currently unused.
*
*  Base must be either 8, 10, 16 or 0 to detect it automatically
*  similar to user space **strtoul**\ (3).
*
* Returns
```

```
*  Number of characters consumed on success. Must be positive but
*  no more than *buf_len*.
*
*  **-EINVAL** if no valid digits were found or unsupported base
*  was provided.
*
*  **-ERANGE** if resulting value was out of range.
*/
static long (* const bpf_strtoul)(const char *buf, unsigned long buf_len, __u64 flags, unsigned long *res) = (void *)
106;

/*
* bpf_sk_storage_get
*
*  Get a bpf-local-storage from a *sk*.
*
*  Logically, it could be thought of getting
 the value from
*  a *map* with *sk* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *sk*) except this
*  helper enforces the key must be a full socket and the map must
*  be a **BPF_MAP_TYPE_SK_STORAGE** also.
*
*  Underneath, the value is stored locally at *sk* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf-local-storages residing at *sk*.
*
*  *sk* is a kernel **struct sock** pointer for LSM program.
*  *sk* is a **struct bpf_sock** pointer for other program types.
*
*  An optional *flags* (**BPF_SK_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf-local-storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_SK_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf-local-storage.  If *value* is
*  **NULL**, the new bpf-local-storage
 will be zero initialized.
*
* Returns
*  A bpf-local-storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf-local-storage.
*/
static void *(* const bpf_sk_storage_get)(void *map, void *sk, void *value, __u64 flags) = (void *) 107;
```

```
/*
* bpf_sk_storage_delete
*
*  Delete a bpf-local-storage from a *sk*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf-local-storage cannot be found.
*  **-EINVAL** if sk is not a fullsock (e.g. a request_sock).
*/
static long (* const bpf_sk_storage_delete)(void *map, void *sk) = (void *) 108;

/*
* bpf_send_signal
*
*  Send signal *sig* to the process of the current task.
*  The signal may be delivered to any of this process's threads.
*
* Returns
*  0 on success or successfully queued.
*
*  **-EBUSY** if work queue under nmi is full.
*
*  **-EINVAL** if *sig* is invalid.
*
*  **-EPERM** if no permission to send the *sig*.
*
*  **-EAGAIN** if bpf
 program can try again.
*/
static long (* const bpf_send_signal)(__u32 sig) = (void *) 109;

/*
* bpf_tcp_gen_syncookie
*
*  Try to issue a SYN cookie for the packet with corresponding
*  IP/TCP headers, *iph* and *th*, on the listening socket in *sk*.
*
*  *iph* points to the start of the IPv4 or IPv6 header, while
*  *iph_len* contains **sizeof**\ (**struct iphdr**) or
*  **sizeof**\ (**struct ipv6hdr**).
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header with options (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
```

```
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure, the returned value is one of the following:
*
*  **-EINVAL** SYN cookie cannot be issued due to error
*
*  **-ENOENT** SYN cookie should not be issued (no SYN flood)
*
*  **-EOPNOTSUPP** kernel configuration
 does not enable SYN cookies
*
*  **-EPROTONOSUPPORT** IP packet version is not 4 or 6
*/
static __s64 (* const bpf_tcp_gen_syncookie)(void *sk, void *iph, __u32 iph_len, struct tcphdr *th, __u32 th_len) =
(void *) 110;

/*
* bpf_skb_output
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
*  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  *ctx* is a pointer to in-kernel struct sk_buff.
*
*  This helper is similar to
 **bpf_perf_event_output**\ () but
*  restricted to raw_tracepoint bpf programs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *) 111;

/*
```

```
* bpf_probe_read_user
*
*  Safely attempt to read *size* bytes from user space address
*  *unsafe_ptr* and store the data in *dst*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read_user)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 112;

/*
* bpf_probe_read_kernel
*
*  Safely attempt to read *size* bytes from kernel space address
*  *unsafe_ptr* and store the data in *dst*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read_kernel)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 113;

/*
* bpf_probe_read_user_str
*
*  Copy a NUL terminated string from an unsafe
 user address
*  *unsafe_ptr* to *dst*. The *size* should include the
*  terminating NUL byte. In case the string length is smaller than
*  *size*, the target is not padded with further NUL bytes. If the
*  string length is larger than *size*, just *size*-1 bytes are
*  copied and the last byte is set to NUL.
*
*  On success, returns the number of bytes that were written,
*  including the terminal NUL. This makes this helper useful in
*  tracing programs for reading strings, and more importantly to
*  get its length at runtime. See the following snippet:
*
*  ::
*
*   SEC("kprobe/sys_open")
*   void bpf_sys_open(struct pt_regs *ctx)
*   {
*           char buf[PATHLEN]; // PATHLEN is defined to 256
*           int res = bpf_probe_read_user_str(buf, sizeof(buf),
*                                   ctx->di);
*
*    // Consume buf, for example push it to
*    // userspace via bpf_perf_event_output(); we
```

```
*    // can use res (the string length) as event
*    // size,
 after checking its boundaries.
*   }
*
*  In comparison, using **bpf_probe_read_user**\ () helper here
*  instead to read the string would require to estimate the length
*  at compile time, and would often result in copying more memory
*  than necessary.
*
*  Another useful use case is when parsing individual process
*  arguments or individual environment variables navigating
*  *current*\ **->mm->arg_start** and *current*\
*  **->mm->env_start**: using this helper and the return value,
*  one can quickly iterate at the right offset of the memory area.
*
* Returns
*  On success, the strictly positive length of the output string,
*  including the trailing NUL character. On error, a negative
*  value.
*/
static long (* const bpf_probe_read_user_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 114;

/*
* bpf_probe_read_kernel_str
*
*  Copy a NUL terminated string from an unsafe kernel address *unsafe_ptr*
*  to *dst*. Same semantics as with **bpf_probe_read_user_str**\
 () apply.
*
* Returns
*  On success, the strictly positive length of the string, including
*  the trailing NUL character. On error, a negative value.
*/
static long (* const bpf_probe_read_kernel_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 115;

/*
* bpf_tcp_send_ack
*
*  Send out a tcp-ack. *tp* is the in-kernel struct **tcp_sock**.
*  *rcv_nxt* is the ack_seq to be sent out.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_tcp_send_ack)(void *tp, __u32 rcv_nxt) = (void *) 116;

/*
```

```
* bpf_send_signal_thread
*
*  Send signal *sig* to the thread corresponding to the current task.
*
* Returns
*  0 on success or successfully queued.
*
*  **-EBUSY** if work queue under nmi is full.
*
*  **-EINVAL** if *sig* is invalid.
*
*  **-EPERM** if no permission to send the *sig*.
*
*  **-EAGAIN** if bpf program can try again.
*/
static long (* const bpf_send_signal_thread)(__u32 sig) = (void
 *) 117;

/*
* bpf_jiffies64
*
*  Obtain the 64bit jiffies
*
* Returns
*  The 64 bit jiffies
*/
static __u64 (* const bpf_jiffies64)(void) = (void *) 118;

/*
* bpf_read_branch_records
*
*  For an eBPF program attached to a perf event, retrieve the
*  branch records (**struct perf_branch_entry**) associated to *ctx*
*  and store it in the buffer pointed by *buf* up to size
*  *size* bytes.
*
* Returns
*  On success, number of bytes written to *buf*. On error, a
*  negative value.
*
*  The *flags* can be set to **BPF_F_GET_BRANCH_RECORDS_SIZE** to
*  instead return the number of bytes required to store all the
*  branch entries. If this flag is set, *buf* may be NULL.
*
*  **-EINVAL** if arguments invalid or **size** not a multiple
*  of **sizeof**\ (**struct perf_branch_entry**\ ).
*
*  **-ENOENT** if architecture does not support branch records.
```

```
*/
static long (* const bpf_read_branch_records)(struct bpf_perf_event_data *ctx, void *buf, __u32 size, __u64
 flags) = (void *) 119;

/*
* bpf_get_ns_current_pid_tgid
*
*  Returns 0 on success, values for *pid* and *tgid* as seen from the current
*  *namespace* will be returned in *nsdata*.
*
* Returns
*  0 on success, or one of the following in case of failure:
*
*  **-EINVAL** if dev and inum supplied don't match dev_t and inode number
*  with nsfs of current task, or if dev conversion to dev_t lost high bits.
*
*  **-ENOENT** if pidns does not exists for the current task.
*/
static long (* const bpf_get_ns_current_pid_tgid)(__u64 dev, __u64 ino, struct bpf_pidns_info *nsdata, __u32 size)
= (void *) 120;

/*
* bpf_xdp_output
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
*  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index
 in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  *ctx* is a pointer to in-kernel struct xdp_buff.
*
*  This helper is similar to **bpf_perf_eventoutput**\ () but
*  restricted to raw_tracepoint bpf programs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
```

```
static long (* const bpf_xdp_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *) 121;

/*
* bpf_get_netns_cookie
*
*  Retrieve the cookie (generated by the kernel) of the network
*  namespace the input *ctx* is associated with. The network
*  namespace cookie remains stable for its lifetime and provides
*  a global identifier that can be assumed unique. If *ctx* is
*  NULL, then the helper returns the cookie
 for the initial
*  network namespace. The cookie itself is very similar to that
*  of **bpf_get_socket_cookie**\ () helper, but for network
*  namespaces instead of sockets.
*
* Returns
*  A 8-byte long opaque number.
*/
static __u64 (* const bpf_get_netns_cookie)(void *ctx) = (void *) 122;

/*
* bpf_get_current_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of the cgroup associated
*  with the current task at the *ancestor_level*. The root cgroup
*  is at *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with the current task, then return value will be the
*  same as that of **bpf_get_current_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with the current task.
*
*  The format of returned id and helper limitations are same as in
*  **bpf_get_current_cgroup_id**\
 ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_get_current_ancestor_cgroup_id)(int ancestor_level) = (void *) 123;

/*
* bpf_sk_assign
*
*  Helper is overloaded depending on BPF program type. This
*  description applies to **BPF_PROG_TYPE_SCHED_CLS** and
```

```
*  **BPF_PROG_TYPE_SCHED_ACT** programs.
*
*  Assign the *sk* to the *skb*. When combined with appropriate
*  routing configuration to receive the packet towards the socket,
*  will cause *skb* to be delivered to the specified socket.
*  Subsequent redirection of *skb* via  **bpf_redirect**\ (),
*  **bpf_clone_redirect**\ () or other methods outside of BPF may
*  interfere with successful delivery to the socket.
*
*  This operation is only valid from TC ingress path.
*
*  The *flags* argument must be zero.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EINVAL** if specified *flags* are not supported.
*
*  **-ENOENT**
 if the socket is unavailable for assignment.
*
*  **-ENETUNREACH** if the socket is unreachable (wrong netns).
*
*  **-EOPNOTSUPP** if the operation is not supported, for example
*  a call from outside of TC ingress.
*/
static long (* const bpf_sk_assign)(void *ctx, void *sk, __u64 flags) = (void *) 124;

/*
* bpf_ktime_get_boot_ns
*
*  Return the time elapsed since system boot, in nanoseconds.
*  Does include the time the system was suspended.
*  See: **clock_gettime**\ (**CLOCK_BOOTTIME**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_boot_ns)(void) = (void *) 125;

/*
* bpf_seq_printf
*
*  **bpf_seq_printf**\ () uses seq_file **seq_printf**\ () to print
*  out the format string.
*  The *m* represents the seq_file. The *fmt* and *fmt_size* are for
*  the format string itself. The *data* and *data_len* are format string
*  arguments. The *data* are a **u64** array and corresponding format string
```

```
*  values are stored in the array. For strings
 and pointers where pointees
*  are accessed, only the pointer values are stored in the *data* array.
*  The *data_len* is the size of *data* in bytes - must be a multiple of 8.
*
*  Formats **%s**, **%p{i,I}{4,6}** requires to read kernel memory.
*  Reading kernel memory may fail due to either invalid address or
*  valid address but requiring a major memory fault. If reading kernel memory
*  fails, the string for **%s** will be an empty string, and the ip
*  address for **%p{i,I}{4,6}** will be 0. Not returning error to
*  bpf program is consistent with what **bpf_trace_printk**\ () does for now.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EBUSY** if per-CPU memory copy buffer is busy, can try again
*  by returning 1 from bpf program.
*
*  **-EINVAL** if arguments are invalid, or if *fmt* is invalid/unsupported.
*
*  **-E2BIG** if *fmt* contains too many format specifiers.
*
*  **-EOVERFLOW** if an overflow happened: The same
 object will be tried again.
*/
static long (* const bpf_seq_printf)(struct seq_file *m, const char *fmt, __u32 fmt_size, const void *data, __u32
data_len) = (void *) 126;

/*
* bpf_seq_write
*
*  **bpf_seq_write**\ () uses seq_file **seq_write**\ () to write the data.
*  The *m* represents the seq_file. The *data* and *len* represent the
*  data to write in bytes.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EOVERFLOW** if an overflow happened: The same object will be tried again.
*/
static long (* const bpf_seq_write)(struct seq_file *m, const void *data, __u32 len) = (void *) 127;

/*
* bpf_sk_cgroup_id
*
*  Return the cgroup v2 id of the socket *sk*.
*
*  *sk* must be a non-**NULL** pointer to a socket, e.g. one
```

```
*  returned from **bpf_sk_lookup_xxx**\ (),
*  **bpf_sk_fullsock**\ (), etc. The format of returned id is
*  same as in **bpf_skb_cgroup_id**\ ().
*
*  This helper is available only if the kernel was compiled with
*  the
 **CONFIG_SOCK_CGROUP_DATA** configuration option.
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_sk_cgroup_id)(void *sk) = (void *) 128;

/*
* bpf_sk_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of cgroup associated
*  with the *sk* at the *ancestor_level*.  The root cgroup is at
*  *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with *sk*, then return value will be same as that
*  of **bpf_sk_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with *sk*.
*
*  The format of returned id and helper limitations are same as in
*  **bpf_sk_cgroup_id**\ ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_sk_ancestor_cgroup_id)(void *sk, int ancestor_level)
 = (void *) 129;

/*
* bpf_ringbuf_output
*
*  Copy *size* bytes from *data* into a ring buffer *ringbuf*.
*  If **BPF_RB_NO_WAKEUP** is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  An adaptive notification is a notification sent whenever the user-space
```

```
*  process has caught up and consumed all available payloads. In case the user-space
*  process is still processing a previous payload, then no notification is needed
*  as it will process the newly added payload automatically.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_ringbuf_output)(void *ringbuf, void *data, __u64 size, __u64 flags) = (void *) 130;

/*
* bpf_ringbuf_reserve
*
*  Reserve *size* bytes of payload
 in a ring buffer *ringbuf*.
*  *flags* must be 0.
*
* Returns
*  Valid pointer with *size* bytes of memory available; NULL,
*  otherwise.
*/
static void *(* const bpf_ringbuf_reserve)(void *ringbuf, __u64 size, __u64 flags) = (void *) 131;

/*
* bpf_ringbuf_submit
*
*  Submit reserved ring buffer sample, pointed to by *data*.
*  If **BPF_RB_NO_WAKEUP** is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  See 'bpf_ringbuf_output()' for the definition of adaptive notification.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_submit)(void *data, __u64 flags) = (void *) 132;

/*
* bpf_ringbuf_discard
*
*  Discard reserved ring buffer sample, pointed to by *data*.
*  If **BPF_RB_NO_WAKEUP**
 is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
```

```
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  See 'bpf_ringbuf_output()' for the definition of adaptive notification.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_discard)(void *data, __u64 flags) = (void *) 133;

/*
* bpf_ringbuf_query
*
*  Query various characteristics of provided ring buffer. What
*  exactly is queries is determined by *flags*:
*
*  * **BPF_RB_AVAIL_DATA**: Amount of data not yet consumed.
*  * **BPF_RB_RING_SIZE**: The size of ring buffer.
*  * **BPF_RB_CONS_POS**: Consumer position (can wrap around).
*  * **BPF_RB_PROD_POS**: Producer(s) position (can wrap around).
*
*  Data returned is just a momentary snapshot of actual values
*  and could be inaccurate,
 so this facility should be used to
*  power heuristics and for reporting, not to make 100% correct
*  calculation.
*
* Returns
*  Requested value, or 0, if *flags* are not recognized.
*/
static __u64 (* const bpf_ringbuf_query)(void *ringbuf, __u64 flags) = (void *) 134;

/*
* bpf_csum_level
*
*  Change the skbs checksum level by one layer up or down, or
*  reset it entirely to none in order to have the stack perform
*  checksum validation. The level is applicable to the following
*  protocols: TCP, UDP, GRE, SCTP, FCOE. For example, a decap of
*  | ETH | IP | UDP | GUE | IP | TCP | into | ETH | IP | TCP |
*  through **bpf_skb_adjust_room**\ () helper with passing in
*  **BPF_F_ADJ_ROOM_NO_CSUM_RESET** flag would require one call
*  to **bpf_csum_level**\ () with **BPF_CSUM_LEVEL_DEC** since
*  the UDP header is removed. Similarly, an encap of the latter
*  into the former could be accompanied by a helper call to
*  **bpf_csum_level**\ () with **BPF_CSUM_LEVEL_INC**
```

```
 if the
*  skb is still intended to be processed in higher layers of the
*  stack instead of just egressing at tc.
*
*  There are three supported level settings at this time:
*
*  * **BPF_CSUM_LEVEL_INC**: Increases skb->csum_level for skbs
*    with CHECKSUM_UNNECESSARY.
*  * **BPF_CSUM_LEVEL_DEC**: Decreases skb->csum_level for skbs
*    with CHECKSUM_UNNECESSARY.
*  * **BPF_CSUM_LEVEL_RESET**: Resets skb->csum_level to 0 and
*    sets CHECKSUM_NONE to force checksum validation by the stack.
*  * **BPF_CSUM_LEVEL_QUERY**: No-op, returns the current
*    skb->csum_level.
*
* Returns
*  0 on success, or a negative error in case of failure. In the
*  case of **BPF_CSUM_LEVEL_QUERY**, the current skb->csum_level
*  is returned or the error code -EACCES in case the skb is not
*  subject to CHECKSUM_UNNECESSARY.
*/
static long (* const bpf_csum_level)(struct __sk_buff *skb, __u64 level) = (void *) 135;

/*
* bpf_skc_to_tcp6_sock
*
*  Dynamically cast a *sk* pointer to
 a *tcp6_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp6_sock *(* const bpf_skc_to_tcp6_sock)(void *sk) = (void *) 136;

/*
* bpf_skc_to_tcp_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_sock *(* const bpf_skc_to_tcp_sock)(void *sk) = (void *) 137;

/*
* bpf_skc_to_tcp_timewait_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_timewait_sock* pointer.
```

```
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_timewait_sock *(* const bpf_skc_to_tcp_timewait_sock)(void *sk) = (void *) 138;

/*
* bpf_skc_to_tcp_request_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_request_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_request_sock *(* const bpf_skc_to_tcp_request_sock)(void *sk) = (void *) 139;

/*
* bpf_skc_to_udp6_sock
 *
*  Dynamically cast a *sk* pointer to a *udp6_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct udp6_sock *(* const bpf_skc_to_udp6_sock)(void *sk) = (void *) 140;

/*
* bpf_get_task_stack
*
*  Return a user or a kernel stack in bpf program provided buffer.
*  Note: the user stack will only be populated if the *task* is
*  the current task; all other tasks will return -EOPNOTSUPP.
*  To achieve this, the helper needs *task*, which is a valid
*  pointer to **struct task_struct**. To store the stacktrace, the
*  bpf program provides *buf* with a nonnegative *size*.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can be used to set
*  the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*   The *task* must be the current task.
*  **BPF_F_USER_BUILD_ID**
*   Collect
 buildid+offset instead of ips for user stack,
*   only valid if **BPF_F_USER_STACK** is also specified.
```

```
*
*  **bpf_get_task_stack**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames, subject
*  to sufficient large buffer size. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The non-negative copied *buf* length equal to or less than
*  *size* on success, or a negative error in case of failure.
*/
static long (* const bpf_get_task_stack)(struct task_struct *task, void *buf, __u32 size, __u64 flags) = (void *) 141;

/*
* bpf_load_hdr_opt
*
*  Load header option.  Support reading a particular TCP header
*  option for bpf program (**BPF_PROG_TYPE_SOCK_OPS**).
*
*  If *flags* is 0, it will search the option from
 the
*  *skops*\ **->skb_data**.  The comment in **struct bpf_sock_ops**
*  has details on what skb_data contains under different
*  *skops*\ **->op**.
*
*  The first byte of the *searchby_res* specifies the
*  kind that it wants to search.
*
*  If the searching kind is an experimental kind
*  (i.e. 253 or 254 according to RFC6994).  It also
*  needs to specify the "magic" which is either
*  2 bytes or 4 bytes.  It then also needs to
*  specify the size of the magic by using
*  the 2nd byte which is "kind-length" of a TCP
*  header option and the "kind-length" also
*  includes the first 2 bytes "kind" and "kind-length"
*  itself as a normal TCP header option also does.
*
*  For example, to search experimental kind 254 with
*  2 byte magic 0xeB9F, the searchby_res should be
*  [ 254, 4, 0xeB, 0x9F, 0, 0, .... 0 ].
*
*  To search for the standard window scale option (3),
```

```
*  the *searchby_res* should be [ 3, 0, 0, .... 0 ].
*  Note, kind-length must be 0 for regular
 option.
*
*  Searching for No-Op (0) and End-of-Option-List (1) are
*  not supported.
*
*  *len* must be at least 2 bytes which is the minimal size
*  of a header option.
*
*  Supported flags:
*
*  * **BPF_LOAD_HDR_OPT_TCP_SYN** to search from the
*    saved_syn packet or the just-received syn packet.
*
*
* Returns
*  > 0 when found, the header option is copied to *searchby_res*.
*  The return value is the total length copied. On failure, a
*  negative error code is returned:
*
*  **-EINVAL** if a parameter is invalid.
*
*  **-ENOMSG** if the option is not found.
*
*  **-ENOENT** if no syn packet is available when
*  **BPF_LOAD_HDR_OPT_TCP_SYN** is used.
*
*  **-ENOSPC** if there is not enough space.  Only *len* number of
*  bytes are copied.
*
*  **-EFAULT** on failure to parse the header options in the
*  packet.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_load_hdr_opt)(struct bpf_sock_ops
 *skops, void *searchby_res, __u32 len, __u64 flags) = (void *) 142;

/*
* bpf_store_hdr_opt
*
*  Store header option.  The data will be copied
*  from buffer *from* with length *len* to the TCP header.
*
*  The buffer *from* should have the whole option that
*  includes the kind, kind-length, and the actual
```

```
*  option data.  The *len* must be at least kind-length
*  long.  The kind-length does not have to be 4 byte
*  aligned.  The kernel will take care of the padding
*  and setting the 4 bytes aligned value to th->doff.
*
*  This helper will check for duplicated option
*  by searching the same option in the outgoing skb.
*
*  This helper can only be called during
*  **BPF_SOCK_OPS_WRITE_HDR_OPT_CB**.
*
*
* Returns
*  0 on success, or negative error in case of failure:
*
*  **-EINVAL** If param is invalid.
*
*  **-ENOSPC** if there is not enough space in the header.
*  Nothing has been written
*
*  **-EEXIST** if the option already exists.
*
*  **-EFAULT**
 on failure to parse the existing header options.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_store_hdr_opt)(struct bpf_sock_ops *skops, const void *from, __u32 len, __u64 flags) =
(void *) 143;

/*
* bpf_reserve_hdr_opt
*
*  Reserve *len* bytes for the bpf header option.  The
*  space will be used by **bpf_store_hdr_opt**\ () later in
*  **BPF_SOCK_OPS_WRITE_HDR_OPT_CB**.
*
*  If **bpf_reserve_hdr_opt**\ () is called multiple times,
*  the total number of bytes will be reserved.
*
*  This helper can only be called during
*  **BPF_SOCK_OPS_HDR_OPT_LEN_CB**.
*
*
* Returns
*  0 on success, or negative error in case of failure:
*
```

```
*  **-EINVAL** if a parameter is invalid.
*
*  **-ENOSPC** if there is not enough space in the header.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_reserve_hdr_opt)(struct bpf_sock_ops *skops,
 __u32 len, __u64 flags) = (void *) 144;

/*
* bpf_inode_storage_get
*
*  Get a bpf_local_storage from an *inode*.
*
*  Logically, it could be thought of as getting the value from
*  a *map* with *inode* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *inode*) except this
*  helper enforces the key must be an inode and the map must also
*  be a **BPF_MAP_TYPE_INODE_STORAGE**.
*
*  Underneath, the value is stored locally at *inode* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf_local_storage residing at *inode*.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf_local_storage.
  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_inode_storage_get)(void *map, void *inode, void *value, __u64 flags) = (void *) 145;

/*
* bpf_inode_storage_delete
*
*  Delete a bpf_local_storage from an *inode*.
*
```

```
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static int (* const bpf_inode_storage_delete)(void *map, void *inode) = (void *) 146;

/*
* bpf_d_path
*
*  Return full path for given **struct path** object, which
*  needs to be the kernel BTF *path* object. The path is
*  returned in the provided buffer *buf* of size *sz* and
*  is zero terminated.
*
*
* Returns
*  On success, the strictly positive length of the string,
*  including the trailing NUL character. On error, a negative
*  value.
 */
static long (* const bpf_d_path)(struct path *path, char *buf, __u32 sz) = (void *) 147;

/*
* bpf_copy_from_user
*
*  Read *size* bytes from user space address *user_ptr* and store
*  the data in *dst*. This is a wrapper of **copy_from_user**\ ().
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_copy_from_user)(void *dst, __u32 size, const void *user_ptr) = (void *) 148;

/*
* bpf_snprintf_btf
*
*  Use BTF to store a string representation of *ptr*->ptr in *str*,
*  using *ptr*->type_id.  This value should specify the type
*  that *ptr*->ptr points to. LLVM __builtin_btf_type_id(type, 1)
*  can be used to look up vmlinux BTF type ids. Traversing the
*  data structure using BTF, the type information and values are
*  stored in the first *str_size* - 1 bytes of *str*.  Safe copy of
*  the pointer data is carried out to avoid kernel crashes during
*  operation.  Smaller types can use string space on the stack;
*  larger
 programs can use map data to store the string
*  representation.
```

```
*
*  The string can be subsequently shared with userspace via
*  bpf_perf_event_output() or ring buffer interfaces.
*  bpf_trace_printk() is to be avoided as it places too small
*  a limit on string size to be useful.
*
*  *flags* is a combination of
*
*  **BTF_F_COMPACT**
*   no formatting around type information
*  **BTF_F_NONAME**
*   no struct/union member names/types
*  **BTF_F_PTR_RAW**
*   show raw (unobfuscated) pointer values;
*   equivalent to printk specifier %px.
*  **BTF_F_ZERO**
*   show zero-valued struct/union members; they
*   are not displayed by default
*
*
* Returns
*  The number of bytes that were written (or would have been
*  written if output had to be truncated due to string size),
*  or a negative error in cases of failure.
*/
static long (* const bpf_snprintf_btf)(char *str, __u32 str_size, struct btf_ptr *ptr, __u32 btf_ptr_size, __u64 flags) =
(void *) 149;

/*
 * bpf_seq_printf_btf
*
*  Use BTF to write to seq_write a string representation of
*  *ptr*->ptr, using *ptr*->type_id as per bpf_snprintf_btf().
*  *flags* are identical to those used for bpf_snprintf_btf.
*
* Returns
*  0 on success or a negative error in case of failure.
*/
static long (* const bpf_seq_printf_btf)(struct seq_file *m, struct btf_ptr *ptr, __u32 ptr_size, __u64 flags) = (void
*) 150;

/*
* bpf_skb_cgroup_classid
*
*  See **bpf_get_cgroup_classid**\ () for the main description.
*  This helper differs from **bpf_get_cgroup_classid**\ () in that
*  the cgroup v1 net_cls class is retrieved only from the *skb*'s
*  associated socket instead of the current process.
```

```
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_cgroup_classid)(struct __sk_buff *skb) = (void *) 151;

/*
* bpf_redirect_neigh
*
*  Redirect the packet to another net device of index *ifindex*
*  and fill in L2 addresses from neighboring
 subsystem. This helper
*  is somewhat similar to **bpf_redirect**\ (), except that it
*  populates L2 addresses as well, meaning, internally, the helper
*  relies on the neighbor lookup for the L2 address of the nexthop.
*
*  The helper will perform a FIB lookup based on the skb's
*  networking header to get the address of the next hop, unless
*  this is supplied by the caller in the *params* argument. The
*  *plen* argument indicates the len of *params* and should be set
*  to 0 if *params* is NULL.
*
*  The *flags* argument is reserved and must be 0. The helper is
*  currently only supported for tc BPF program types, and enabled
*  for IPv4 and IPv6 protocols.
*
* Returns
*  The helper returns **TC_ACT_REDIRECT** on success or
*  **TC_ACT_SHOT** on error.
*/
static long (* const bpf_redirect_neigh)(__u32 ifindex, struct bpf_redir_neigh *params, int plen, __u64 flags) =
(void *) 152;

/*
* bpf_per_cpu_ptr
*
*  Take a pointer to a percpu ksym, *percpu_ptr*,
 and return a
*  pointer to the percpu kernel variable on *cpu*. A ksym is an
*  extern variable decorated with '__ksym'. For ksym, there is a
*  global var (either static or global) defined of the same name
*  in the kernel. The ksym is percpu if the global var is percpu.
*  The returned pointer points to the global percpu var on *cpu*.
*
*  bpf_per_cpu_ptr() has the same semantic as per_cpu_ptr() in the
*  kernel, except that bpf_per_cpu_ptr() may return NULL. This
*  happens if *cpu* is larger than nr_cpu_ids. The caller of
*  bpf_per_cpu_ptr() must check the returned value.
```

```
*
* Returns
*  A pointer pointing to the kernel percpu variable on *cpu*, or
*  NULL, if *cpu* is invalid.
*/
static void *(* const bpf_per_cpu_ptr)(const void *percpu_ptr, __u32 cpu) = (void *) 153;

/*
* bpf_this_cpu_ptr
*
*  Take a pointer to a percpu ksym, *percpu_ptr*, and return a
*  pointer to the percpu kernel variable on this cpu. See the
*  description of 'ksym' in **bpf_per_cpu_ptr**\
 ().
*
*  bpf_this_cpu_ptr() has the same semantic as this_cpu_ptr() in
*  the kernel. Different from **bpf_per_cpu_ptr**\ (), it would
*  never return NULL.
*
* Returns
*  A pointer pointing to the kernel percpu variable on this cpu.
*/
static void *(* const bpf_this_cpu_ptr)(const void *percpu_ptr) = (void *) 154;

/*
* bpf_redirect_peer
*
*  Redirect the packet to another net device of index *ifindex*.
*  This helper is somewhat similar to **bpf_redirect**\ (), except
*  that the redirection happens to the *ifindex*' peer device and
*  the netns switch takes place from ingress to ingress without
*  going through the CPU's backlog queue.
*
*  The *flags* argument is reserved and must be 0. The helper is
*  currently only supported for tc BPF program types at the
*  ingress hook and for veth and netkit target device types. The
*  peer device must reside in a different network namespace.
*
* Returns
*  The helper returns **TC_ACT_REDIRECT** on success or
*
  **TC_ACT_SHOT** on error.
*/
static long (* const bpf_redirect_peer)(__u32 ifindex, __u64 flags) = (void *) 155;

/*
* bpf_task_storage_get
*
```

```
*  Get a bpf_local_storage from the *task*.
*
*  Logically, it could be thought of as getting the value from
*  a *map* with *task* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *task*) except this
*  helper enforces the key must be a task_struct and the map must also
*  be a **BPF_MAP_TYPE_TASK_STORAGE**.
*
*  Underneath, the value is stored locally at *task* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf_local_storage residing at *task*.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE**
 to specify
*  the initial value of a bpf_local_storage.  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_task_storage_get)(void *map, struct task_struct *task, void *value, __u64 flags) = (void *)
156;

/*
* bpf_task_storage_delete
*
*  Delete a bpf_local_storage from a *task*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static long (* const bpf_task_storage_delete)(void *map, struct task_struct *task) = (void *) 157;

/*
* bpf_get_current_task_btf
*
*  Return a BTF pointer to the "current" task.
*  This pointer can also be used in helpers that accept an
```

```
*  *ARG_PTR_TO_BTF_ID* of type *task_struct*.
*
* Returns
*  Pointer to the current task.
*/
static struct task_struct *(* const
 bpf_get_current_task_btf)(void) = (void *) 158;

/*
* bpf_bprm_opts_set
*
*  Set or clear certain options on *bprm*:
*
*  **BPF_F_BPRM_SECUREEXEC** Set the secureexec bit
*  which sets the **AT_SECURE** auxv for glibc. The bit
*  is cleared if the flag is not specified.
*
* Returns
*  **-EINVAL** if invalid *flags* are passed, zero otherwise.
*/
static long (* const bpf_bprm_opts_set)(struct linux_binprm *bprm, __u64 flags) = (void *) 159;

/*
* bpf_ktime_get_coarse_ns
*
*  Return a coarse-grained version of the time elapsed since
*  system boot, in nanoseconds. Does not include time the system
*  was suspended.
*
*  See: **clock_gettime**\ (**CLOCK_MONOTONIC_COARSE**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_coarse_ns)(void) = (void *) 160;

/*
* bpf_ima_inode_hash
*
*  Returns the stored IMA hash of the *inode* (if it's available).
*  If the hash is larger than *size*, then only *size*
*  bytes will be copied to *dst*
*
* Returns
 *  The **hash_algo** is returned on success,
*  **-EOPNOTSUP** if IMA is disabled or **-EINVAL** if
*  invalid arguments are passed.
*/
```

```
static long (* const bpf_ima_inode_hash)(struct inode *inode, void *dst, __u32 size) = (void *) 161;

/*
* bpf_sock_from_file
*
*  If the given file represents a socket, returns the associated
*  socket.
*
* Returns
*  A pointer to a struct socket on success or NULL if the file is
*  not a socket.
*/
static struct socket *(* const bpf_sock_from_file)(struct file *file) = (void *) 162;

/*
* bpf_check_mtu
*
*  Check packet size against exceeding MTU of net device (based
*  on *ifindex*).  This helper will likely be used in combination
*  with helpers that adjust/change the packet size.
*
*  The argument *len_diff* can be used for querying with a planned
*  size change. This allows to check MTU prior to changing packet
*  ctx. Providing a *len_diff* adjustment that is larger than the
*  actual packet size (resulting in negative
 packet size) will in
*  principle not exceed the MTU, which is why it is not considered
*  a failure.  Other BPF helpers are needed for performing the
*  planned size change; therefore the responsibility for catching
*  a negative packet size belongs in those helpers.
*
*  Specifying *ifindex* zero means the MTU check is performed
*  against the current net device.  This is practical if this isn't
*  used prior to redirect.
*
*  On input *mtu_len* must be a valid pointer, else verifier will
*  reject BPF program.  If the value *mtu_len* is initialized to
*  zero then the ctx packet size is use.  When value *mtu_len* is
*  provided as input this specify the L3 length that the MTU check
*  is done against. Remember XDP and TC length operate at L2, but
*  this value is L3 as this correlate to MTU and IP-header tot_len
*  values which are L3 (similar behavior as bpf_fib_lookup).
*
*  The Linux kernel route table can configure MTUs on a more
*  specific per route level,
 which is not provided by this helper.
*  For route level MTU checks use the **bpf_fib_lookup**\ ()
*  helper.
```

```
*
*  *ctx* is either **struct xdp_md** for XDP programs or
*  **struct sk_buff** for tc cls_act programs.
*
*  The *flags* argument can be a combination of one or more of the
*  following values:
*
*  **BPF_MTU_CHK_SEGS**
*   This flag will only works for *ctx* **struct sk_buff**.
*   If packet context contains extra packet segment buffers
*   (often knows as GSO skb), then MTU check is harder to
*   check at this point, because in transmit path it is
*   possible for the skb packet to get re-segmented
*   (depending on net device features).  This could still be
*   a MTU violation, so this flag enables performing MTU
*   check against segments, with a different violation
*   return code to tell it apart. Check cannot use len_diff.
*
*  On return *mtu_len* pointer contains the MTU value of the net
*  device.  Remember the net device configured MTU is the
 L3 size,
*  which is returned here and XDP and TC length operate at L2.
*  Helper take this into account for you, but remember when using
*  MTU value in your BPF-code.
*
*
* Returns
*  * 0 on success, and populate MTU value in *mtu_len* pointer.
*
*  * < 0 if any input argument is invalid (*mtu_len* not updated)
*
*  MTU violations return positive values, but also populate MTU
*  value in *mtu_len* pointer, as this can be needed for
*  implementing PMTU handing:
*
*  * **BPF_MTU_CHK_RET_FRAG_NEEDED**
*  * **BPF_MTU_CHK_RET_SEGS_TOOBIG**
*/
static long (* const bpf_check_mtu)(void *ctx, __u32 ifindex, __u32 *mtu_len, __s32 len_diff, __u64 flags) = (void
*) 163;

/*
* bpf_for_each_map_elem
*
*  For each element in **map**, call **callback_fn** function with
*  **map**, **callback_ctx** and other map-specific parameters.
*  The **callback_fn** should be a static function and
*  the **callback_ctx** should be a pointer to the stack.
```

```
*  The **flags** is used to control
 certain aspects of the helper.
*  Currently, the **flags** must be 0.
*
*  The following are a list of supported map types and their
*  respective expected callback signatures:
*
*  BPF_MAP_TYPE_HASH, BPF_MAP_TYPE_PERCPU_HASH,
*  BPF_MAP_TYPE_LRU_HASH, BPF_MAP_TYPE_LRU_PERCPU_HASH,
*  BPF_MAP_TYPE_ARRAY, BPF_MAP_TYPE_PERCPU_ARRAY
*
*  long (\*callback_fn)(struct bpf_map \*map, const void \*key, void \*value, void \*ctx);
*
*  For per_cpu maps, the map_value is the value on the cpu where the
*  bpf_prog is running.
*
*  If **callback_fn** return 0, the helper will continue to the next
*  element. If return value is 1, the helper will skip the rest of
*  elements and return. Other return values are not used now.
*
*
* Returns
*  The number of traversed map elements for success, **-EINVAL** for
*  invalid **flags**.
*/
static long (* const bpf_for_each_map_elem)(void *map, void *callback_fn, void *callback_ctx, __u64 flags) =
(void *) 164;

/*
* bpf_snprintf
 *
*  Outputs a string into the **str** buffer of size **str_size**
*  based on a format string stored in a read-only map pointed by
*  **fmt**.
*
*  Each format specifier in **fmt** corresponds to one u64 element
*  in the **data** array. For strings and pointers where pointees
*  are accessed, only the pointer values are stored in the *data*
*  array. The *data_len* is the size of *data* in bytes - must be
*  a multiple of 8.
*
*  Formats **%s** and **%p{i,I}{4,6}** require to read kernel
*  memory. Reading kernel memory may fail due to either invalid
*  address or valid address but requiring a major memory fault. If
*  reading kernel memory fails, the string for **%s** will be an
*  empty string, and the ip address for **%p{i,I}{4,6}** will be 0.
*  Not returning error to bpf program is consistent with what
*  **bpf_trace_printk**\ () does for now.
```

```
*
*
* Returns
*  The strictly positive length of the formatted string, including
*  the trailing zero character. If
 the return value is greater than
*  **str_size**, **str** contains a truncated string, guaranteed to
*  be zero-terminated except when **str_size** is 0.
*
*  Or **-EBUSY** if the per-CPU memory copy buffer is busy.
*/
static long (* const bpf_snprintf)(char *str, __u32 str_size, const char *fmt, __u64 *data, __u32 data_len) = (void *)
165;

/*
* bpf_sys_bpf
*
*  Execute bpf syscall with given arguments.
*
* Returns
*  A syscall result.
*/
static long (* const bpf_sys_bpf)(__u32 cmd, void *attr, __u32 attr_size) = (void *) 166;

/*
* bpf_btf_find_by_name_kind
*
*  Find BTF type with given name and kind in vmlinux BTF or in module's BTFs.
*
* Returns
*  Returns btf_id and btf_obj_fd in lower and upper 32 bits.
*/
static long (* const bpf_btf_find_by_name_kind)(char *name, int name_sz, __u32 kind, int flags) = (void *) 167;

/*
* bpf_sys_close
*
*  Execute close syscall for given FD.
*
* Returns
*  A syscall result.
*/
static long (* const bpf_sys_close)(__u32
 fd) = (void *) 168;

/*
* bpf_timer_init
*
```

```
*  Initialize the timer.
*  First 4 bits of *flags* specify clockid.
*  Only CLOCK_MONOTONIC, CLOCK_REALTIME, CLOCK_BOOTTIME are allowed.
*  All other bits of *flags* are reserved.
*  The verifier will reject the program if *timer* is not from
*  the same *map*.
*
* Returns
*  0 on success.
*  **-EBUSY** if *timer* is already initialized.
*  **-EINVAL** if invalid *flags* are passed.
*  **-EPERM** if *timer* is in a map that doesn't have any user references.
*  The user space should either hold a file descriptor to a map with timers
*  or pin such map in bpffs. When map is unpinned or file descriptor is
*  closed all timers in the map will be cancelled and freed.
*/
static long (* const bpf_timer_init)(struct bpf_timer *timer, void *map, __u64 flags) = (void *) 169;

/*
* bpf_timer_set_callback
*
*  Configure the timer to call *callback_fn* static function.
*
* Returns
*  0 on success.
*  **-EINVAL** if *timer* was not
 initialized with bpf_timer_init() earlier.
*  **-EPERM** if *timer* is in a map that doesn't have any user references.
*  The user space should either hold a file descriptor to a map with timers
*  or pin such map in bpffs. When map is unpinned or file descriptor is
*  closed all timers in the map will be cancelled and freed.
*/
static long (* const bpf_timer_set_callback)(struct bpf_timer *timer, void *callback_fn) = (void *) 170;

/*
* bpf_timer_start
*
*  Set timer expiration N nanoseconds from the current time. The
*  configured callback will be invoked in soft irq context on some cpu
*  and will not repeat unless another bpf_timer_start() is made.
*  In such case the next invocation can migrate to a different cpu.
*  Since struct bpf_timer is a field inside map element the map
*  owns the timer. The bpf_timer_set_callback() will increment refcnt
*  of BPF program to make sure that callback_fn code stays valid.
*  When user space reference to a map reaches zero all
 timers
*  in a map are cancelled and corresponding program's refcnts are
*  decremented. This is done to make sure that Ctrl-C of a user
```

```
*  process doesn't leave any timers running. If map is pinned in
*  bpffs the callback_fn can re-arm itself indefinitely.
*  bpf_map_update/delete_elem() helpers and user space sys_bpf commands
*  cancel and free the timer in the given map element.
*  The map can contain timers that invoke callback_fn-s from different
*  programs. The same callback_fn can serve different timers from
*  different maps if key/value layout matches across maps.
*  Every bpf_timer_set_callback() can have different callback_fn.
*
*  *flags* can be one of:
*
*  **BPF_F_TIMER_ABS**
*   Start the timer in absolute expire value instead of the
*   default relative one.
*  **BPF_F_TIMER_CPU_PIN**
*   Timer will be pinned to the CPU of the caller.
*
*
* Returns
*  0 on success.
*  **-EINVAL** if *timer* was not initialized with bpf_timer_init() earlier
*  or
 invalid *flags* are passed.
*/
static long (* const bpf_timer_start)(struct bpf_timer *timer, __u64 nsecs, __u64 flags) = (void *) 171;

/*
* bpf_timer_cancel
*
*  Cancel the timer and wait for callback_fn to finish if it was running.
*
* Returns
*  0 if the timer was not active.
*  1 if the timer was active.
*  **-EINVAL** if *timer* was not initialized with bpf_timer_init() earlier.
*  **-EDEADLK** if callback_fn tried to call bpf_timer_cancel() on its
*  own timer which would have led to a deadlock otherwise.
*/
static long (* const bpf_timer_cancel)(struct bpf_timer *timer) = (void *) 172;

/*
* bpf_get_func_ip
*
*  Get address of the traced function (for tracing and kprobe programs).
*
*  When called for kprobe program attached as uprobe it returns
*  probe address for both entry and return uprobe.
*
```

```
*
* Returns
*  Address of the traced function for kprobe.
*  0 for kprobes placed within the function (not at the entry).
*  Address of the probe for uprobe
 and return uprobe.
*/
static __u64 (* const bpf_get_func_ip)(void *ctx) = (void *) 173;

/*
* bpf_get_attach_cookie
*
*  Get bpf_cookie value provided (optionally) during the program
*  attachment. It might be different for each individual
*  attachment, even if BPF program itself is the same.
*  Expects BPF program context *ctx* as a first argument.
*
*  Supported for the following program types:
*   - kprobe/uprobe;
*   - tracepoint;
*   - perf_event.
*
* Returns
*  Value specified by user at BPF link creation/attachment time
*  or 0, if it was not specified.
*/
static __u64 (* const bpf_get_attach_cookie)(void *ctx) = (void *) 174;

/*
* bpf_task_pt_regs
*
*  Get the struct pt_regs associated with **task**.
*
* Returns
*  A pointer to struct pt_regs.
*/
static long (* const bpf_task_pt_regs)(struct task_struct *task) = (void *) 175;

/*
* bpf_get_branch_snapshot
*
*  Get branch trace from hardware engines like Intel LBR. The
*  hardware engine is stopped
 shortly after the helper is
*  called. Therefore, the user need to filter branch entries
*  based on the actual use case. To capture branch trace
*  before the trigger point of the BPF program, the helper
*  should be called at the beginning of the BPF program.
```

```
*
*  The data is stored as struct perf_branch_entry into output
*  buffer *entries*. *size* is the size of *entries* in bytes.
*  *flags* is reserved for now and must be zero.
*
*
* Returns
*  On success, number of bytes written to *buf*. On error, a
*  negative value.
*
*  **-EINVAL** if *flags* is not zero.
*
*  **-ENOENT** if architecture does not support branch records.
*/
static long (* const bpf_get_branch_snapshot)(void *entries, __u32 size, __u64 flags) = (void *) 176;

/*
* bpf_trace_vprintk
*
*  Behaves like **bpf_trace_printk**\ () helper, but takes an array of u64
*  to format and can handle more format args as a result.
*
*  Arguments are to be used as in **bpf_seq_printf**\ () helper.
*
*
 Returns
*  The number of bytes written to the buffer, or a negative error
*  in case of failure.
*/
static long (* const bpf_trace_vprintk)(const char *fmt, __u32 fmt_size, const void *data, __u32 data_len) = (void
*) 177;

/*
* bpf_skc_to_unix_sock
*
*  Dynamically cast a *sk* pointer to a *unix_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct unix_sock *(* const bpf_skc_to_unix_sock)(void *sk) = (void *) 178;

/*
* bpf_kallsyms_lookup_name
*
*  Get the address of a kernel symbol, returned in *res*. *res* is
*  set to 0 if the symbol is not found.
*
```

```
* Returns
*  On success, zero. On error, a negative value.
*
*  **-EINVAL** if *flags* is not zero.
*
*  **-EINVAL** if string *name* is not the same size as *name_sz*.
*
*  **-ENOENT** if symbol is not found.
*
*  **-EPERM** if caller does not have permission to obtain kernel address.
*/
static long (* const bpf_kallsyms_lookup_name)(const char *name, int name_sz, int
 flags, __u64 *res) = (void *) 179;

/*
* bpf_find_vma
*
*  Find vma of *task* that contains *addr*, call *callback_fn*
*  function with *task*, *vma*, and *callback_ctx*.
*  The *callback_fn* should be a static function and
*  the *callback_ctx* should be a pointer to the stack.
*  The *flags* is used to control certain aspects of the helper.
*  Currently, the *flags* must be 0.
*
*  The expected callback signature is
*
*  long (\*callback_fn)(struct task_struct \*task, struct vm_area_struct \*vma, void \*callback_ctx);
*
*
* Returns
*  0 on success.
*  **-ENOENT** if *task->mm* is NULL, or no vma contains *addr*.
*  **-EBUSY** if failed to try lock mmap_lock.
*  **-EINVAL** for invalid **flags**.
*/
static long (* const bpf_find_vma)(struct task_struct *task, __u64 addr, void *callback_fn, void *callback_ctx,
__u64 flags) = (void *) 180;

/*
* bpf_loop
*
*  For **nr_loops**, call **callback_fn** function
*  with **callback_ctx** as the context parameter.
*  The
 **callback_fn** should be a static function and
*  the **callback_ctx** should be a pointer to the stack.
*  The **flags** is used to control certain aspects of the helper.
*  Currently, the **flags** must be 0. Currently, nr_loops is
```

```
*  limited to 1 << 23 (~8 million) loops.
*
*  long (\*callback_fn)(u32 index, void \*ctx);
*
*  where **index** is the current index in the loop. The index
*  is zero-indexed.
*
*  If **callback_fn** returns 0, the helper will continue to the next
*  loop. If return value is 1, the helper will skip the rest of
*  the loops and return. Other return values are not used now,
*  and will be rejected by the verifier.
*
*
* Returns
*  The number of loops performed, **-EINVAL** for invalid **flags**,
*  **-E2BIG** if **nr_loops** exceeds the maximum number of loops.
*/
static long (* const bpf_loop)(__u32 nr_loops, void *callback_fn, void *callback_ctx, __u64 flags) = (void *) 181;

/*
* bpf_strncmp
*
*  Do strncmp() between **s1** and
 **s2**. **s1** doesn't need
*  to be null-terminated and **s1_sz** is the maximum storage
*  size of **s1**. **s2** must be a read-only string.
*
* Returns
*  An integer less than, equal to, or greater than zero
*  if the first **s1_sz** bytes of **s1** is found to be
*  less than, to match, or be greater than **s2**.
*/
static long (* const bpf_strncmp)(const char *s1, __u32 s1_sz, const char *s2) = (void *) 182;

/*
* bpf_get_func_arg
*
*  Get **n**-th argument register (zero based) of the traced function (for tracing programs)
*  returned in **value**.
*
*
* Returns
*  0 on success.
*  **-EINVAL** if n >= argument register count of traced function.
*/
static long (* const bpf_get_func_arg)(void *ctx, __u32 n, __u64 *value) = (void *) 183;

/*
```

```
* bpf_get_func_ret
*
*  Get return value of the traced function (for tracing programs)
*  in **value**.
*
*
* Returns
*  0 on success.
*  **-EOPNOTSUPP** for tracing programs other than BPF_TRACE_FEXIT or BPF_MODIFY_RETURN.
 */
static long (* const bpf_get_func_ret)(void *ctx, __u64 *value) = (void *) 184;

/*
* bpf_get_func_arg_cnt
*
*  Get number of registers of the traced function (for tracing programs) where
*  function arguments are stored in these registers.
*
*
* Returns
*  The number of argument registers of the traced function.
*/
static long (* const bpf_get_func_arg_cnt)(void *ctx) = (void *) 185;

/*
* bpf_get_retval
*
*  Get the BPF program's return value that will be returned to the upper layers.
*
*  This helper is currently supported by cgroup programs and only by the hooks
*  where BPF program's return value is returned to the userspace via errno.
*
* Returns
*  The BPF program's return value.
*/
static int (* const bpf_get_retval)(void) = (void *) 186;

/*
* bpf_set_retval
*
*  Set the BPF program's return value that will be returned to the upper layers.
*
*  This helper is currently supported by cgroup programs and only by the hooks
*  where BPF program's
 return value is returned to the userspace via errno.
*
*  Note that there is the following corner case where the program exports an error
*  via bpf_set_retval but signals success via 'return 1':
```

```
*
*   bpf_set_retval(-EPERM);
*   return 1;
*
*  In this case, the BPF program's return value will use helper's -EPERM. This
*  still holds true for cgroup/bind{4,6} which supports extra 'return 3' success case.
*
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static int (* const bpf_set_retval)(int retval) = (void *) 187;

/*
* bpf_xdp_get_buff_len
*
*  Get the total size of a given xdp buff (linear and paged area)
*
* Returns
*  The total size of a given xdp buffer.
*/
static __u64 (* const bpf_xdp_get_buff_len)(struct xdp_md *xdp_md) = (void *) 188;

/*
* bpf_xdp_load_bytes
*
*  This helper is provided as an easy way to load data from a
*  xdp buffer. It can be used to load *len* bytes from *offset* from
*  the frame associated to *xdp_md*,
 into the buffer pointed by
*  *buf*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_load_bytes)(struct xdp_md *xdp_md, __u32 offset, void *buf, __u32 len) = (void *)
189;

/*
* bpf_xdp_store_bytes
*
*  Store *len* bytes from buffer *buf* into the frame
*  associated to *xdp_md*, at *offset*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_store_bytes)(struct xdp_md *xdp_md, __u32 offset, void *buf, __u32 len) = (void *)
```

```
190;

/*
* bpf_copy_from_user_task
*
*  Read *size* bytes from user space address *user_ptr* in *tsk*'s
*  address space, and stores the data in *dst*. *flags* is not
*  used yet and is provided for future extensibility. This helper
*  can only be used by sleepable programs.
*
* Returns
*  0 on success, or a negative error in case of failure. On error
*  *dst* buffer is zeroed out.
*/
static long (* const bpf_copy_from_user_task)(void *dst,
 __u32 size, const void *user_ptr, struct task_struct *tsk, __u64 flags) = (void *) 191;

/*
* bpf_skb_set_tstamp
*
*  Change the __sk_buff->tstamp_type to *tstamp_type*
*  and set *tstamp* to the __sk_buff->tstamp together.
*
*  If there is no need to change the __sk_buff->tstamp_type,
*  the tstamp value can be directly written to __sk_buff->tstamp
*  instead.
*
*  BPF_SKB_TSTAMP_DELIVERY_MONO is the only tstamp that
*  will be kept during bpf_redirect_*().  A non zero
*  *tstamp* must be used with the BPF_SKB_TSTAMP_DELIVERY_MONO
*  *tstamp_type*.
*
*  A BPF_SKB_TSTAMP_UNSPEC *tstamp_type* can only be used
*  with a zero *tstamp*.
*
*  Only IPv4 and IPv6 skb->protocol are supported.
*
*  This function is most useful when it needs to set a
*  mono delivery time to __sk_buff->tstamp and then
*  bpf_redirect_*() to the egress of an iface.  For example,
*  changing the (rcv) timestamp in __sk_buff->tstamp at
*  ingress to a mono delivery time and then bpf_redirect_*()
 *  to sch_fq@phy-dev.
*
* Returns
*  0 on success.
*  **-EINVAL** for invalid input
*  **-EOPNOTSUPP** for unsupported protocol
```

```
*/
static long (* const bpf_skb_set_tstamp)(struct __sk_buff *skb, __u64 tstamp, __u32 tstamp_type) = (void *) 192;

/*
* bpf_ima_file_hash
*
*  Returns a calculated IMA hash of the *file*.
*  If the hash is larger than *size*, then only *size*
*  bytes will be copied to *dst*
*
* Returns
*  The **hash_algo** is returned on success,
*  **-EOPNOTSUP** if the hash calculation failed or **-EINVAL** if
*  invalid arguments are passed.
*/
static long (* const bpf_ima_file_hash)(struct file *file, void *dst, __u32 size) = (void *) 193;

/*
* bpf_kptr_xchg
*
*  Exchange kptr at pointer *map_value* with *ptr*, and return the
*  old value. *ptr* can be NULL, otherwise it must be a referenced
*  pointer which will be released when this helper is called.
*
* Returns
*  The old value of kptr (which can be NULL). The returned pointer
*  if
 not NULL, is a reference which must be released using its
*  corresponding release function, or moved into a BPF map before
*  program exit.
*/
static void *(* const bpf_kptr_xchg)(void *map_value, void *ptr) = (void *) 194;

/*
* bpf_map_lookup_percpu_elem
*
*  Perform a lookup in *percpu map* for an entry associated to
*  *key* on *cpu*.
*
* Returns
*  Map value associated to *key* on *cpu*, or **NULL** if no entry
*  was found or *cpu* is invalid.
*/
static void *(* const bpf_map_lookup_percpu_elem)(void *map, const void *key, __u32 cpu) = (void *) 195;

/*
* bpf_skc_to_mptcp_sock
*
```

```
*  Dynamically cast a *sk* pointer to a *mptcp_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct mptcp_sock *(* const bpf_skc_to_mptcp_sock)(void *sk) = (void *) 196;

/*
* bpf_dynptr_from_mem
*
*  Get a dynptr to local memory *data*.
*
*  *data* must be a ptr to a map value.
*  The maximum *size* supported is DYNPTR_MAX_SIZE.
*  *flags*
 is currently unused.
*
* Returns
*  0 on success, -E2BIG if the size exceeds DYNPTR_MAX_SIZE,
*  -EINVAL if flags is not 0.
*/
static long (* const bpf_dynptr_from_mem)(void *data, __u32 size, __u64 flags, struct bpf_dynptr *ptr) = (void *)
197;

/*
* bpf_ringbuf_reserve_dynptr
*
*  Reserve *size* bytes of payload in a ring buffer *ringbuf*
*  through the dynptr interface. *flags* must be 0.
*
*  Please note that a corresponding bpf_ringbuf_submit_dynptr or
*  bpf_ringbuf_discard_dynptr must be called on *ptr*, even if the
*  reservation fails. This is enforced by the verifier.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_ringbuf_reserve_dynptr)(void *ringbuf, __u32 size, __u64 flags, struct bpf_dynptr *ptr) =
(void *) 198;

/*
* bpf_ringbuf_submit_dynptr
*
*  Submit reserved ring buffer sample, pointed to by *data*,
*  through the dynptr interface. This is a no-op if the dynptr is
*  invalid/null.
*
*
```

```
  For more information on *flags*, please see
*  'bpf_ringbuf_submit'.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_submit_dynptr)(struct bpf_dynptr *ptr, __u64 flags) = (void *) 199;

/*
* bpf_ringbuf_discard_dynptr
*
*  Discard reserved ring buffer sample through the dynptr
*  interface. This is a no-op if the dynptr is invalid/null.
*
*  For more information on *flags*, please see
*  'bpf_ringbuf_discard'.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_discard_dynptr)(struct bpf_dynptr *ptr, __u64 flags) = (void *) 200;

/*
* bpf_dynptr_read
*
*  Read *len* bytes from *src* into *dst*, starting from *offset*
*  into *src*.
*  *flags* is currently unused.
*
* Returns
*  0 on success, -E2BIG if *offset* + *len* exceeds the length
*  of *src*'s data, -EINVAL if *src* is an invalid dynptr or if
*  *flags* is not 0.
*/
static long (* const bpf_dynptr_read)(void *dst, __u32 len, const struct bpf_dynptr
 *src, __u32 offset, __u64 flags) = (void *) 201;

/*
* bpf_dynptr_write
*
*  Write *len* bytes from *src* into *dst*, starting from *offset*
*  into *dst*.
*
*  *flags* must be 0 except for skb-type dynptrs.
*
*  For skb-type dynptrs:
*      *  All data slices of the dynptr are automatically
*         invalidated after **bpf_dynptr_write**\ (). This is
```

```
*        because writing may pull the skb and change the
*        underlying packet buffer.
*
*      *  For *flags*, please see the flags accepted by
*        **bpf_skb_store_bytes**\ ().
*
* Returns
*  0 on success, -E2BIG if *offset* + *len* exceeds the length
*  of *dst*'s data, -EINVAL if *dst* is an invalid dynptr or if *dst*
*  is a read-only dynptr or if *flags* is not correct. For skb-type dynptrs,
*  other errors correspond to errors returned by **bpf_skb_store_bytes**\ ().
*/
static long (* const bpf_dynptr_write)(const struct bpf_dynptr *dst, __u32 offset, void *src, __u32 len, __u64 flags)
= (void *)
 202;

/*
* bpf_dynptr_data
*
*  Get a pointer to the underlying dynptr data.
*
*  *len* must be a statically known value. The returned data slice
*  is invalidated whenever the dynptr is invalidated.
*
*  skb and xdp type dynptrs may not use bpf_dynptr_data. They should
*  instead use bpf_dynptr_slice and bpf_dynptr_slice_rdwr.
*
* Returns
*  Pointer to the underlying dynptr data, NULL if the dynptr is
*  read-only, if the dynptr is invalid, or if the offset and length
*  is out of bounds.
*/
static void *(* const bpf_dynptr_data)(const struct bpf_dynptr *ptr, __u32 offset, __u32 len) = (void *) 203;

/*
* bpf_tcp_raw_gen_syncookie_ipv4
*
*  Try to issue a SYN cookie for the packet with corresponding
*  IPv4/TCP headers, *iph* and *th*, without depending on a
*  listening socket.
*
*  *iph* points to the IPv4 header.
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header (at least
*  **sizeof**\ (**struct tcphdr**)).
 *
* Returns
```

```
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure, the returned value is one of the following:
*
*  **-EINVAL** if *th_len* is invalid.
*/
static __s64 (* const bpf_tcp_raw_gen_syncookie_ipv4)(struct iphdr *iph, struct tcphdr *th, __u32 th_len) = (void
*) 204;

/*
* bpf_tcp_raw_gen_syncookie_ipv6
*
*  Try to issue a SYN cookie for the packet with corresponding
*  IPv6/TCP headers, *iph* and *th*, without depending on a
*  listening socket.
*
*  *iph* points to the IPv6 header.
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure,
 the returned value is one of the following:
*
*  **-EINVAL** if *th_len* is invalid.
*
*  **-EPROTONOSUPPORT** if CONFIG_IPV6 is not builtin.
*/
static __s64 (* const bpf_tcp_raw_gen_syncookie_ipv6)(struct ipv6hdr *iph, struct tcphdr *th, __u32 th_len) =
(void *) 205;

/*
* bpf_tcp_raw_check_syncookie_ipv4
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK
*  without depending on a listening socket.
*
*  *iph* points to the IPv4 header.
*
*  *th* points to the TCP header.
```

```
*
* Returns
*  0 if *iph* and *th* are a valid SYN cookie ACK.
*
*  On failure, the returned value is one of the following:
*
*  **-EACCES** if the SYN cookie is not valid.
*/
static long (* const bpf_tcp_raw_check_syncookie_ipv4)(struct iphdr *iph, struct tcphdr *th) = (void *) 206;

/*
* bpf_tcp_raw_check_syncookie_ipv6
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK
*  without depending on a listening socket.
*
*  *iph* points to the IPv6 header.
*
*  *th*
 points to the TCP header.
*
* Returns
*  0 if *iph* and *th* are a valid SYN cookie ACK.
*
*  On failure, the returned value is one of the following:
*
*  **-EACCES** if the SYN cookie is not valid.
*
*  **-EPROTONOSUPPORT** if CONFIG_IPV6 is not builtin.
*/
static long (* const bpf_tcp_raw_check_syncookie_ipv6)(struct ipv6hdr *iph, struct tcphdr *th) = (void *) 207;

/*
* bpf_ktime_get_tai_ns
*
*  A nonsettable system-wide clock derived from wall-clock time but
*  ignoring leap seconds.  This clock does not experience
*  discontinuities and backwards jumps caused by NTP inserting leap
*  seconds as CLOCK_REALTIME does.
*
*  See: **clock_gettime**\ (**CLOCK_TAI**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_tai_ns)(void) = (void *) 208;

/*
```

```
* bpf_user_ringbuf_drain
*
*  Drain samples from the specified user ring buffer, and invoke
*  the provided callback for each such sample:
*
*  long (\*callback_fn)(const struct bpf_dynptr \*dynptr,
 void \*ctx);
*
*  If **callback_fn** returns 0, the helper will continue to try
*  and drain the next sample, up to a maximum of
*  BPF_MAX_USER_RINGBUF_SAMPLES samples. If the return value is 1,
*  the helper will skip the rest of the samples and return. Other
*  return values are not used now, and will be rejected by the
*  verifier.
*
* Returns
*  The number of drained samples if no error was encountered while
*  draining samples, or 0 if no samples were present in the ring
*  buffer. If a user-space producer was epoll-waiting on this map,
*  and at least one sample was drained, they will receive an event
*  notification notifying them of available space in the ring
*  buffer. If the BPF_RB_NO_WAKEUP flag is passed to this
*  function, no wakeup notification will be sent. If the
*  BPF_RB_FORCE_WAKEUP flag is passed, a wakeup notification will
*  be sent even if no sample was drained.
*
*  On failure, the returned value is one of the following:
*
*  **-EBUSY**
 if the ring buffer is contended, and another calling
*  context was concurrently draining the ring buffer.
*
*  **-EINVAL** if user-space is not properly tracking the ring
*  buffer due to the producer position not being aligned to 8
*  bytes, a sample not being aligned to 8 bytes, or the producer
*  position not matching the advertised length of a sample.
*
*  **-E2BIG** if user-space has tried to publish a sample which is
*  larger than the size of the ring buffer, or which cannot fit
*  within a struct bpf_dynptr.
*/
static long (* const bpf_user_ringbuf_drain)(void *map, void *callback_fn, void *ctx, __u64 flags) = (void *) 209;

/*
* bpf_cgrp_storage_get
*
*  Get a bpf_local_storage from the *cgroup*.
*
```

```
*  Logically, it could be thought of as getting the value from
*  a *map* with *cgroup* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *cgroup*) except this
*  helper enforces the
 key must be a cgroup struct and the map must also
*  be a **BPF_MAP_TYPE_CGRP_STORAGE**.
*
*  In reality, the local-storage value is embedded directly inside of the
*  *cgroup* object itself, rather than being located in the
*  **BPF_MAP_TYPE_CGRP_STORAGE** map. When the local-storage value is
*  queried for some *map* on a *cgroup* object, the kernel will perform an
*  O(n) iteration over all of the live local-storage values for that
*  *cgroup* object until the local-storage value for the *map* is found.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf_local_storage.  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was
 an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_cgrp_storage_get)(void *map, struct cgroup *cgroup, void *value, __u64 flags) = (void *)
210;

/*
* bpf_cgrp_storage_delete
*
*  Delete a bpf_local_storage from a *cgroup*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static long (* const bpf_cgrp_storage_delete)(void *map, struct cgroup *cgroup) = (void *) 211;
```

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```
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_TRACING_H__
#define __BPF_TRACING_H__

#include "bpf_helpers.h"

/* Scan the ARCH passed in from ARCH env variable (see Makefile) */
#if defined(__TARGET_ARCH_x86)
 #define bpf_target_x86
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_s390)
 #define bpf_target_s390
```

```
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arm)
 #define bpf_target_arm
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arm64)
 #define bpf_target_arm64
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_mips)
 #define bpf_target_mips
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_powerpc)
 #define bpf_target_powerpc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_sparc)
 #define bpf_target_sparc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_riscv)
 #define bpf_target_riscv
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arc)
 #define bpf_target_arc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_loongarch)
 #define
 bpf_target_loongarch
 #define bpf_target_defined
#else

/* Fall back to what the compiler says */
#if defined(__x86_64__)
 #define bpf_target_x86
 #define bpf_target_defined
#elif defined(__s390__)
 #define bpf_target_s390
 #define bpf_target_defined
#elif defined(__arm__)
 #define bpf_target_arm
 #define bpf_target_defined
#elif defined(__aarch64__)
 #define bpf_target_arm64
 #define bpf_target_defined
#elif defined(__mips__)
 #define bpf_target_mips
 #define bpf_target_defined
#elif defined(__powerpc__)
 #define bpf_target_powerpc
 #define bpf_target_defined
#elif defined(__sparc__)
```

```
 #define bpf_target_sparc
 #define bpf_target_defined
#elif defined(__riscv) && __riscv_xlen == 64
 #define bpf_target_riscv
 #define bpf_target_defined
#elif defined(__arc__)
 #define bpf_target_arc
 #define bpf_target_defined
#elif defined(__loongarch__)
 #define bpf_target_loongarch
 #define bpf_target_defined
#endif /* no compiler target */

#endif

#ifndef __BPF_TARGET_MISSING
#define
 __BPF_TARGET_MISSING "GCC error \"Must specify a BPF target arch via __TARGET_ARCH_xxx\""
#endif

#if defined(bpf_target_x86)

/*
* https://en.wikipedia.org/wiki/X86_calling_conventions#System_V_AMD64_ABI
*/

#if defined(__KERNEL__) || defined(__VMLINUX_H__)

#define __PT_PARM1_REG di
#define __PT_PARM2_REG si
#define __PT_PARM3_REG dx
#define __PT_PARM4_REG cx
#define __PT_PARM5_REG r8
#define __PT_PARM6_REG r9
/*
* Syscall uses r10 for PARM4. See arch/x86/entry/entry_64.S:entry_SYSCALL_64
* comments in Linux sources. And refer to syscall(2) manpage.
*/
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG r10
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG sp
#define __PT_FP_REG bp
#define __PT_RC_REG ax
```

```
#define __PT_SP_REG sp
#define __PT_IP_REG ip

#else

#ifdef __i386__

/*
 i386 kernel is built with -mregparm=3 */
#define __PT_PARM1_REG eax
#define __PT_PARM2_REG edx
#define __PT_PARM3_REG ecx
/* i386 syscall ABI is very different, refer to syscall(2) manpage */
#define __PT_PARM1_SYSCALL_REG ebx
#define __PT_PARM2_SYSCALL_REG ecx
#define __PT_PARM3_SYSCALL_REG edx
#define __PT_PARM4_SYSCALL_REG esi
#define __PT_PARM5_SYSCALL_REG edi
#define __PT_PARM6_SYSCALL_REG ebp

#define __PT_RET_REG esp
#define __PT_FP_REG ebp
#define __PT_RC_REG eax
#define __PT_SP_REG esp
#define __PT_IP_REG eip

#else /* __i386__ */

#define __PT_PARM1_REG rdi
#define __PT_PARM2_REG rsi
#define __PT_PARM3_REG rdx
#define __PT_PARM4_REG rcx
#define __PT_PARM5_REG r8
#define __PT_PARM6_REG r9

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG r10
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG rsp
#define
 __PT_FP_REG rbp
#define __PT_RC_REG rax
#define __PT_SP_REG rsp
#define __PT_IP_REG rip
```

```
#endif /* __i386__ */

#endif /* __KERNEL__ || __VMLINUX_H__ */

#elif defined(bpf_target_s390)

/*
* https://github.com/IBM/s390x-abi/releases/download/v1.6/lzsabi_s390x.pdf
*/

struct pt_regs___s390 {
 unsigned long orig_gpr2;
};

/* s390 provides user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const user_pt_regs *)(x))
#define __PT_PARM1_REG gprs[2]
#define __PT_PARM2_REG gprs[3]
#define __PT_PARM3_REG gprs[4]
#define __PT_PARM4_REG gprs[5]
#define __PT_PARM5_REG gprs[6]

#define __PT_PARM1_SYSCALL_REG orig_gpr2
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG gprs[7]
#define PT_REGS_PARM1_SYSCALL(x) PT_REGS_PARM1_CORE_SYSCALL(x)
#define PT_REGS_PARM1_CORE_SYSCALL(x) \
 BPF_CORE_READ((const
 struct pt_regs___s390 *)(x), __PT_PARM1_SYSCALL_REG)

#define __PT_RET_REG gprs[14]
#define __PT_FP_REG gprs[11] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG gprs[2]
#define __PT_SP_REG gprs[15]
#define __PT_IP_REG psw.addr

#elif defined(bpf_target_arm)

/*
* https://github.com/ARM-software/abi-aa/blob/main/aapcs32/aapcs32.rst#machine-registers
*/

#define __PT_PARM1_REG uregs[0]
#define __PT_PARM2_REG uregs[1]
```

```
#define __PT_PARM3_REG uregs[2]
#define __PT_PARM4_REG uregs[3]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG uregs[4]
#define __PT_PARM6_SYSCALL_REG uregs[5]
#define __PT_PARM7_SYSCALL_REG uregs[6]

#define __PT_RET_REG uregs[14]
#define __PT_FP_REG uregs[11] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG uregs[0]
#define __PT_SP_REG uregs[13]
#define __PT_IP_REG uregs[12]

#elif
 defined(bpf_target_arm64)

/*
* https://github.com/ARM-software/abi-aa/blob/main/aapcs64/aapcs64.rst#machine-registers
*/

struct pt_regs___arm64 {
 unsigned long orig_x0;
};

/* arm64 provides struct user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_pt_regs *)(x))
#define __PT_PARM1_REG regs[0]
#define __PT_PARM2_REG regs[1]
#define __PT_PARM3_REG regs[2]
#define __PT_PARM4_REG regs[3]
#define __PT_PARM5_REG regs[4]
#define __PT_PARM6_REG regs[5]
#define __PT_PARM7_REG regs[6]
#define __PT_PARM8_REG regs[7]

#define __PT_PARM1_SYSCALL_REG orig_x0
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
#define PT_REGS_PARM1_SYSCALL(x) PT_REGS_PARM1_CORE_SYSCALL(x)
#define PT_REGS_PARM1_CORE_SYSCALL(x) \
 BPF_CORE_READ((const struct pt_regs___arm64 *)(x),
```

```
 __PT_PARM1_SYSCALL_REG)

#define __PT_RET_REG regs[30]
#define __PT_FP_REG regs[29] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG regs[0]
#define __PT_SP_REG sp
#define __PT_IP_REG pc

#elif defined(bpf_target_mips)

/*
* N64 ABI is assumed right now.
* https://en.wikipedia.org/wiki/MIPS_architecture#Calling_conventions
*/

#define __PT_PARM1_REG regs[4]
#define __PT_PARM2_REG regs[5]
#define __PT_PARM3_REG regs[6]
#define __PT_PARM4_REG regs[7]
#define __PT_PARM5_REG regs[8]
#define __PT_PARM6_REG regs[9]
#define __PT_PARM7_REG regs[10]
#define __PT_PARM8_REG regs[11]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG /* only N32/N64 */
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG /* only N32/N64 */

#define __PT_RET_REG regs[31]
#define __PT_FP_REG regs[30] /* Works only with CONFIG_FRAME_POINTER
 */
#define __PT_RC_REG regs[2]
#define __PT_SP_REG regs[29]
#define __PT_IP_REG cp0_epc

#elif defined(bpf_target_powerpc)

/*
* http://refspecs.linux-foundation.org/elf/elfspec_ppc.pdf (page 3-14,
* section "Function Calling Sequence")
*/

#define __PT_PARM1_REG gpr[3]
#define __PT_PARM2_REG gpr[4]
#define __PT_PARM3_REG gpr[5]
```

```
#define __PT_PARM4_REG gpr[6]
#define __PT_PARM5_REG gpr[7]
#define __PT_PARM6_REG gpr[8]
#define __PT_PARM7_REG gpr[9]
#define __PT_PARM8_REG gpr[10]

/* powerpc does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG orig_gpr3
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
#if !defined(__arch64__)
#define __PT_PARM7_SYSCALL_REG __PT_PARM7_REG /* only powerpc (not powerpc64) */
#endif

#define __PT_RET_REG regs[31]
#define
 __PT_FP_REG __unsupported__
#define __PT_RC_REG gpr[3]
#define __PT_SP_REG sp
#define __PT_IP_REG nip

#elif defined(bpf_target_sparc)

/*
* https://en.wikipedia.org/wiki/Calling_convention#SPARC
*/

#define __PT_PARM1_REG u_regs[UREG_I0]
#define __PT_PARM2_REG u_regs[UREG_I1]
#define __PT_PARM3_REG u_regs[UREG_I2]
#define __PT_PARM4_REG u_regs[UREG_I3]
#define __PT_PARM5_REG u_regs[UREG_I4]
#define __PT_PARM6_REG u_regs[UREG_I5]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG u_regs[UREG_I7]
#define __PT_FP_REG __unsupported__
#define __PT_RC_REG u_regs[UREG_I0]
```

```
#define __PT_SP_REG u_regs[UREG_FP]
/* Should this also be a bpf_target check for the sparc case? */
#if defined(__arch64__)
#define __PT_IP_REG tpc
#else
#define
 __PT_IP_REG pc
#endif

#elif defined(bpf_target_riscv)

/*
* https://github.com/riscv-non-isa/riscv-elf-psabi-doc/blob/master/riscv-cc.adoc#risc-v-calling-conventions
*/

/* riscv provides struct user_regs_struct instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_regs_struct *)(x))
#define __PT_PARM1_REG a0
#define __PT_PARM2_REG a1
#define __PT_PARM3_REG a2
#define __PT_PARM4_REG a3
#define __PT_PARM5_REG a4
#define __PT_PARM6_REG a5
#define __PT_PARM7_REG a6
#define __PT_PARM8_REG a7

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG ra
#define __PT_FP_REG s0
#define __PT_RC_REG a0
#define __PT_SP_REG sp
#define __PT_IP_REG pc

#elif defined(bpf_target_arc)

/*
* Section "Function Calling Sequence" (page
 24):
* https://raw.githubusercontent.com/wiki/foss-for-synopsys-dwc-arc-processors/toolchain/files/ARCv2_ABI.pdf
*/

/* arc provides struct user_regs_struct instead of struct pt_regs to userspace */
```

```
#define __PT_REGS_CAST(x) ((const struct user_regs_struct *)(x))
#define __PT_PARM1_REG scratch.r0
#define __PT_PARM2_REG scratch.r1
#define __PT_PARM3_REG scratch.r2
#define __PT_PARM4_REG scratch.r3
#define __PT_PARM5_REG scratch.r4
#define __PT_PARM6_REG scratch.r5
#define __PT_PARM7_REG scratch.r6
#define __PT_PARM8_REG scratch.r7

/* arc does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG scratch.blink
#define __PT_FP_REG scratch.fp
#define __PT_RC_REG scratch.r0
#define
 __PT_SP_REG scratch.sp
#define __PT_IP_REG scratch.ret

#elif defined(bpf_target_loongarch)

/*
* https://docs.kernel.org/loongarch/introduction.html
* https://loongson.github.io/LoongArch-Documentation/LoongArch-ELF-ABI-EN.html
*/

/* loongarch provides struct user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_pt_regs *)(x))
#define __PT_PARM1_REG regs[4]
#define __PT_PARM2_REG regs[5]
#define __PT_PARM3_REG regs[6]
#define __PT_PARM4_REG regs[7]
#define __PT_PARM5_REG regs[8]
#define __PT_PARM6_REG regs[9]
#define __PT_PARM7_REG regs[10]
#define __PT_PARM8_REG regs[11]

/* loongarch does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
```

```
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG
 __PT_PARM6_REG

#define __PT_RET_REG regs[1]
#define __PT_FP_REG regs[22]
#define __PT_RC_REG regs[4]
#define __PT_SP_REG regs[3]
#define __PT_IP_REG csr_era

#endif

#if defined(bpf_target_defined)

struct pt_regs;

/* allow some architectures to override `struct pt_regs` */
#ifndef __PT_REGS_CAST
#define __PT_REGS_CAST(x) (x)
#endif

/*
* Different architectures support different number of arguments passed
* through registers. i386 supports just 3, some arches support up to 8.
*/
#ifndef __PT_PARM4_REG
#define __PT_PARM4_REG __unsupported__
#endif
#ifndef __PT_PARM5_REG
#define __PT_PARM5_REG __unsupported__
#endif
#ifndef __PT_PARM6_REG
#define __PT_PARM6_REG __unsupported__
#endif
#ifndef __PT_PARM7_REG
#define __PT_PARM7_REG __unsupported__
#endif
#ifndef __PT_PARM8_REG
#define __PT_PARM8_REG __unsupported__
#endif
/*
* Similarly, syscall-specific conventions might differ between function call
* conventions within each architecutre. All supported architectures pass
* either
 6 or 7 syscall arguments in registers.
*
```

```
* See syscall(2) manpage for succinct table with information on each arch.
*/
#ifndef __PT_PARM7_SYSCALL_REG
#define __PT_PARM7_SYSCALL_REG __unsupported__
#endif

#define PT_REGS_PARM1(x) (__PT_REGS_CAST(x)->__PT_PARM1_REG)
#define PT_REGS_PARM2(x) (__PT_REGS_CAST(x)->__PT_PARM2_REG)
#define PT_REGS_PARM3(x) (__PT_REGS_CAST(x)->__PT_PARM3_REG)
#define PT_REGS_PARM4(x) (__PT_REGS_CAST(x)->__PT_PARM4_REG)
#define PT_REGS_PARM5(x) (__PT_REGS_CAST(x)->__PT_PARM5_REG)
#define PT_REGS_PARM6(x) (__PT_REGS_CAST(x)->__PT_PARM6_REG)
#define PT_REGS_PARM7(x) (__PT_REGS_CAST(x)->__PT_PARM7_REG)
#define PT_REGS_PARM8(x) (__PT_REGS_CAST(x)->__PT_PARM8_REG)
#define PT_REGS_RET(x) (__PT_REGS_CAST(x)->__PT_RET_REG)
#define PT_REGS_FP(x) (__PT_REGS_CAST(x)->__PT_FP_REG)
#define PT_REGS_RC(x) (__PT_REGS_CAST(x)->__PT_RC_REG)
#define PT_REGS_SP(x) (__PT_REGS_CAST(x)->__PT_SP_REG)
#define PT_REGS_IP(x) (__PT_REGS_CAST(x)->__PT_IP_REG)

#define PT_REGS_PARM1_CORE(x)
 BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM1_REG)
#define PT_REGS_PARM2_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM2_REG)
#define PT_REGS_PARM3_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM3_REG)
#define PT_REGS_PARM4_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM4_REG)
#define PT_REGS_PARM5_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM5_REG)
#define PT_REGS_PARM6_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM6_REG)
#define PT_REGS_PARM7_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM7_REG)
#define PT_REGS_PARM8_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM8_REG)
#define PT_REGS_RET_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_RET_REG)
#define PT_REGS_FP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_FP_REG)
#define PT_REGS_RC_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_RC_REG)
#define PT_REGS_SP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_SP_REG)
#define PT_REGS_IP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_IP_REG)

#if defined(bpf_target_powerpc)

#define
 BPF_KPROBE_READ_RET_IP(ip, ctx)  ({ (ip) = (ctx)->link; })
#define BPF_KRETPROBE_READ_RET_IP  BPF_KPROBE_READ_RET_IP

#elif defined(bpf_target_sparc)

#define BPF_KPROBE_READ_RET_IP(ip, ctx)  ({ (ip) = PT_REGS_RET(ctx); })
#define BPF_KRETPROBE_READ_RET_IP  BPF_KPROBE_READ_RET_IP

#else
```

```
#define BPF_KPROBE_READ_RET_IP(ip, ctx)        \
 ({ bpf_probe_read_kernel(&(ip), sizeof(ip), (void *)PT_REGS_RET(ctx)); })
#define BPF_KRETPROBE_READ_RET_IP(ip, ctx)       \
 ({ bpf_probe_read_kernel(&(ip), sizeof(ip), (void *)(PT_REGS_FP(ctx) + sizeof(ip))); })

#endif

#ifndef PT_REGS_PARM1_SYSCALL
#define PT_REGS_PARM1_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM1_SYSCALL_REG)
#define PT_REGS_PARM1_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM1_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM2_SYSCALL
#define PT_REGS_PARM2_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM2_SYSCALL_REG)
#define PT_REGS_PARM2_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM2_SYSCALL_REG)
#endif
#ifndef
 PT_REGS_PARM3_SYSCALL
#define PT_REGS_PARM3_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM3_SYSCALL_REG)
#define PT_REGS_PARM3_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM3_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM4_SYSCALL
#define PT_REGS_PARM4_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM4_SYSCALL_REG)
#define PT_REGS_PARM4_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM4_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM5_SYSCALL
#define PT_REGS_PARM5_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM5_SYSCALL_REG)
#define PT_REGS_PARM5_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM5_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM6_SYSCALL
#define PT_REGS_PARM6_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM6_SYSCALL_REG)
#define PT_REGS_PARM6_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM6_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM7_SYSCALL
#define PT_REGS_PARM7_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM7_SYSCALL_REG)
#define PT_REGS_PARM7_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
 __PT_PARM7_SYSCALL_REG)
#endif

#else /* defined(bpf_target_defined) */

#define PT_REGS_PARM1(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
```

```
#define PT_REGS_PARM3(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM8(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RET(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_FP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RC(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_SP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_IP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define PT_REGS_PARM1_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l;
 })
#define PT_REGS_PARM2_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM8_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RET_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_FP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RC_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_SP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_IP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define BPF_KPROBE_READ_RET_IP(ip, ctx) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define BPF_KRETPROBE_READ_RET_IP(ip, ctx) ({ _Pragma(__BPF_TARGET_MISSING);
 0l; })

#define PT_REGS_PARM1_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define PT_REGS_PARM1_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define
 PT_REGS_PARM7_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
```

```
#endif /* defined(bpf_target_defined) */

/*
* When invoked from a syscall handler kprobe, returns a pointer to a
* struct pt_regs containing syscall arguments and suitable for passing to
* PT_REGS_PARMn_SYSCALL() and PT_REGS_PARMn_CORE_SYSCALL().
*/
#ifndef PT_REGS_SYSCALL_REGS
/* By default, assume that the arch selects ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ((struct pt_regs *)PT_REGS_PARM1(ctx))
#endif

#ifndef ___bpf_concat
#define ___bpf_concat(a, b) a ## b
#endif
#ifndef ___bpf_apply
#define ___bpf_apply(fn, n) ___bpf_concat(fn, n)
#endif
#ifndef ___bpf_nth
#define ___bpf_nth(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _a, _b, _c, N, ...) N
#endif
#ifndef ___bpf_narg
#define ___bpf_narg(...) ___bpf_nth(_, ##__VA_ARGS__, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0)
#endif

#define ___bpf_ctx_cast0()           ctx
#define ___bpf_ctx_cast1(x)          ___bpf_ctx_cast0(), (void *)ctx[0]
#define
 ___bpf_ctx_cast2(x, args...)  ___bpf_ctx_cast1(args), (void *)ctx[1]
#define ___bpf_ctx_cast3(x, args...)  ___bpf_ctx_cast2(args), (void *)ctx[2]
#define ___bpf_ctx_cast4(x, args...)  ___bpf_ctx_cast3(args), (void *)ctx[3]
#define ___bpf_ctx_cast5(x, args...)  ___bpf_ctx_cast4(args), (void *)ctx[4]
#define ___bpf_ctx_cast6(x, args...)  ___bpf_ctx_cast5(args), (void *)ctx[5]
#define ___bpf_ctx_cast7(x, args...)  ___bpf_ctx_cast6(args), (void *)ctx[6]
#define ___bpf_ctx_cast8(x, args...)  ___bpf_ctx_cast7(args), (void *)ctx[7]
#define ___bpf_ctx_cast9(x, args...)  ___bpf_ctx_cast8(args), (void *)ctx[8]
#define ___bpf_ctx_cast10(x, args...) ___bpf_ctx_cast9(args), (void *)ctx[9]
#define ___bpf_ctx_cast11(x, args...) ___bpf_ctx_cast10(args), (void *)ctx[10]
#define ___bpf_ctx_cast12(x, args...) ___bpf_ctx_cast11(args), (void *)ctx[11]
#define ___bpf_ctx_cast(args...)      ___bpf_apply(___bpf_ctx_cast, ___bpf_narg(args))(args)

/*
* BPF_PROG is a convenience wrapper for generic
 tp_btf/fentry/fexit and
* similar kinds of BPF programs, that accept input arguments as a single
* pointer to untyped u64 array, where each u64 can actually be a typed
* pointer or integer of different size. Instead of requring user to write
* manual casts and work with array elements by index, BPF_PROG macro
```

```
* allows user to declare a list of named and typed input arguments in the
* same syntax as for normal C function. All the casting is hidden and
* performed transparently, while user code can just assume working with
* function arguments of specified type and name.
*
* Original raw context argument is preserved as well as 'ctx' argument.
* This is useful when using BPF helpers that expect original context
* as one of the parameters (e.g., for bpf_perf_event_output()).
*/
#define BPF_PROG(name, args...)         \
name(unsigned long long *ctx);          \
static __always_inline typeof(name(0))        \
____##name(unsigned long long *ctx, ##args);        \
typeof(name(0))
 name(unsigned long long *ctx)        \
{            \
 _Pragma("GCC diagnostic push")        \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 return ____##name(___bpf_ctx_cast(args));       \
 _Pragma("GCC diagnostic pop")        \
}            \
static __always_inline typeof(name(0))        \
____##name(unsigned long long *ctx, ##args)

#ifndef ___bpf_nth2
#define ___bpf_nth2(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _10, _11, _12, _13, \
      _14, _15, _16, _17, _18, _19, _20, _21, _22, _23, _24, N, ...) N
#endif
#ifndef ___bpf_narg2
#define ___bpf_narg2(...) \
 ___bpf_nth2(_, ##__VA_ARGS__, 12, 12, 11, 11, 10, 10, 9, 9, 8, 8, 7, 7, \
      6, 6, 5, 5, 4, 4, 3, 3, 2, 2, 1, 1, 0)
#endif

#define ___bpf_treg_cnt(t) \
 __builtin_choose_expr(sizeof(t) == 1, 1, \
 __builtin_choose_expr(sizeof(t) == 2, 1, \
 __builtin_choose_expr(sizeof(t) == 4, 1, \
 __builtin_choose_expr(sizeof(t) == 8, 1, \
 __builtin_choose_expr(sizeof(t) == 16, 2, \
        (void)0)))))

#define
 ___bpf_reg_cnt0()  (0)
#define ___bpf_reg_cnt1(t, x)  (___bpf_reg_cnt0() + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt2(t, x, args...) (___bpf_reg_cnt1(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt3(t, x, args...) (___bpf_reg_cnt2(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt4(t, x, args...) (___bpf_reg_cnt3(args) + ___bpf_treg_cnt(t))
```

```
#define ___bpf_reg_cnt5(t, x, args...) (___bpf_reg_cnt4(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt6(t, x, args...) (___bpf_reg_cnt5(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt7(t, x, args...) (___bpf_reg_cnt6(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt8(t, x, args...) (___bpf_reg_cnt7(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt9(t, x, args...) (___bpf_reg_cnt8(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt10(t, x, args...) (___bpf_reg_cnt9(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt11(t, x, args...) (___bpf_reg_cnt10(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt12(t, x, args...) (___bpf_reg_cnt11(args)
 + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt(args...)  ___bpf_apply(___bpf_reg_cnt, ___bpf_narg2(args))(args)

#define ___bpf_union_arg(t, x, n) \
 __builtin_choose_expr(sizeof(t) == 1, ({ union { __u8 z[1]; t x; } ___t = { .z = {ctx[n]}}; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 2, ({ union { __u16 z[1]; t x; } ___t = { .z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 4, ({ union { __u32 z[1]; t x; } ___t = { .z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 8, ({ union { __u64 z[1]; t x; } ___t = {.z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 16, ({ union { __u64 z[2]; t x; } ___t = {.z = {ctx[n], ctx[n + 1]} }; ___t.x; }), \
        (void)0)))))

#define ___bpf_ctx_arg0(n, args...)
#define ___bpf_ctx_arg1(n, t, x)  , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt1(t, x))
#define ___bpf_ctx_arg2(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt2(t, x, args)) ___bpf_ctx_arg1(n,
args)
#define ___bpf_ctx_arg3(n,
 t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt3(t, x, args)) ___bpf_ctx_arg2(n, args)
#define ___bpf_ctx_arg4(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt4(t, x, args)) ___bpf_ctx_arg3(n,
args)
#define ___bpf_ctx_arg5(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt5(t, x, args)) ___bpf_ctx_arg4(n,
args)
#define ___bpf_ctx_arg6(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt6(t, x, args)) ___bpf_ctx_arg5(n,
args)
#define ___bpf_ctx_arg7(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt7(t, x, args)) ___bpf_ctx_arg6(n,
args)
#define ___bpf_ctx_arg8(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt8(t, x, args)) ___bpf_ctx_arg7(n,
args)
#define ___bpf_ctx_arg9(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt9(t, x, args)) ___bpf_ctx_arg8(n,
args)
#define ___bpf_ctx_arg10(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt10(t, x, args))
___bpf_ctx_arg9(n, args)
#define ___bpf_ctx_arg11(n,
 t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt11(t, x, args)) ___bpf_ctx_arg10(n, args)
#define ___bpf_ctx_arg12(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt12(t, x, args))
___bpf_ctx_arg11(n, args)
#define ___bpf_ctx_arg(args...) ___bpf_apply(___bpf_ctx_arg, ___bpf_narg2(args))(___bpf_reg_cnt(args), args)

#define ___bpf_ctx_decl0()
#define ___bpf_ctx_decl1(t, x)   , t x
#define ___bpf_ctx_decl2(t, x, args...)  , t x ___bpf_ctx_decl1(args)
```

```
#define ___bpf_ctx_decl3(t, x, args...)  , t x ___bpf_ctx_decl2(args)
#define ___bpf_ctx_decl4(t, x, args...)  , t x ___bpf_ctx_decl3(args)
#define ___bpf_ctx_decl5(t, x, args...)  , t x ___bpf_ctx_decl4(args)
#define ___bpf_ctx_decl6(t, x, args...)  , t x ___bpf_ctx_decl5(args)
#define ___bpf_ctx_decl7(t, x, args...)  , t x ___bpf_ctx_decl6(args)
#define ___bpf_ctx_decl8(t, x, args...)  , t x ___bpf_ctx_decl7(args)
#define ___bpf_ctx_decl9(t, x, args...)  , t x ___bpf_ctx_decl8(args)
#define ___bpf_ctx_decl10(t,
 x, args...) , t x ___bpf_ctx_decl9(args)
#define ___bpf_ctx_decl11(t, x, args...) , t x ___bpf_ctx_decl10(args)
#define ___bpf_ctx_decl12(t, x, args...) , t x ___bpf_ctx_decl11(args)
#define ___bpf_ctx_decl(args...) ___bpf_apply(___bpf_ctx_decl, ___bpf_narg2(args))(args)

/*
* BPF_PROG2 is an enhanced version of BPF_PROG in order to handle struct
* arguments. Since each struct argument might take one or two u64 values
* in the trampoline stack, argument type size is needed to place proper number
* of u64 values for each argument. Therefore, BPF_PROG2 has different
* syntax from BPF_PROG. For example, for the following BPF_PROG syntax:
*
*   int BPF_PROG(test2, int a, int b) { ... }
*
* the corresponding BPF_PROG2 syntax is:
*
*   int BPF_PROG2(test2, int, a, int, b) { ... }
*
* where type and the corresponding argument name are separated by comma.
*
* Use BPF_PROG2 macro if one of the arguments might be a struct/union larger
* than 8 bytes:
*
*   int BPF_PROG2(test_struct_arg,
 struct bpf_testmod_struct_arg_1, a, int, b,
*     int, c, int, d, struct bpf_testmod_struct_arg_2, e, int, ret)
*   {
*       // access a, b, c, d, e, and ret directly
*       ...
*   }
*/
#define BPF_PROG2(name, args...)      \
name(unsigned long long *ctx);       \
static __always_inline typeof(name(0))      \
____##name(unsigned long long *ctx ___bpf_ctx_decl(args));   \
typeof(name(0)) name(unsigned long long *ctx)     \
{         \
 return ____##name(ctx ___bpf_ctx_arg(args));    \
}         \
static __always_inline typeof(name(0))      \
```

```
____##name(unsigned long long *ctx ___bpf_ctx_decl(args))

struct pt_regs;

#define ___bpf_kprobe_args0()           ctx
#define ___bpf_kprobe_args1(x)          ___bpf_kprobe_args0(), (void *)PT_REGS_PARM1(ctx)
#define ___bpf_kprobe_args2(x, args...) ___bpf_kprobe_args1(args), (void *)PT_REGS_PARM2(ctx)
#define ___bpf_kprobe_args3(x, args...) ___bpf_kprobe_args2(args), (void *)PT_REGS_PARM3(ctx)
#define ___bpf_kprobe_args4(x,
 args...) ___bpf_kprobe_args3(args), (void *)PT_REGS_PARM4(ctx)
#define ___bpf_kprobe_args5(x, args...) ___bpf_kprobe_args4(args), (void *)PT_REGS_PARM5(ctx)
#define ___bpf_kprobe_args6(x, args...) ___bpf_kprobe_args5(args), (void *)PT_REGS_PARM6(ctx)
#define ___bpf_kprobe_args7(x, args...) ___bpf_kprobe_args6(args), (void *)PT_REGS_PARM7(ctx)
#define ___bpf_kprobe_args8(x, args...) ___bpf_kprobe_args7(args), (void *)PT_REGS_PARM8(ctx)
#define ___bpf_kprobe_args(args...)     ___bpf_apply(___bpf_kprobe_args, ___bpf_narg(args))(args)

/*
* BPF_KPROBE serves the same purpose for kprobes as BPF_PROG for
* tp_btf/fentry/fexit BPF programs. It hides the underlying platform-specific
* low-level way of getting kprobe input arguments from struct pt_regs, and
* provides a familiar typed and named function arguments syntax and
* semantics of accessing kprobe input paremeters.
*
* Original struct pt_regs* context is preserved as 'ctx' argument. This might
* be necessary when using BPF helpers
 like bpf_perf_event_output().
*/
#define BPF_KPROBE(name, args...)        \
name(struct pt_regs *ctx);          \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args);        \
typeof(name(0)) name(struct pt_regs *ctx)        \
{            \
 _Pragma("GCC diagnostic push")        \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 return ____##name(___bpf_kprobe_args(args));       \
 _Pragma("GCC diagnostic pop")        \
}            \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args)

#define ___bpf_kretprobe_args0()       ctx
#define ___bpf_kretprobe_args1(x)      ___bpf_kretprobe_args0(), (void *)PT_REGS_RC(ctx)
#define ___bpf_kretprobe_args(args...) ___bpf_apply(___bpf_kretprobe_args, ___bpf_narg(args))(args)

/*
* BPF_KRETPROBE is similar to BPF_KPROBE, except, it only provides optional
* return value (in addition to `struct pt_regs *ctx`), but no input
```

```
* arguments, because they
 will be clobbered by the time probed function
* returns.
*/
#define BPF_KRETPROBE(name, args...)        \
name(struct pt_regs *ctx);          \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args);        \
typeof(name(0)) name(struct pt_regs *ctx)        \
{            \
 _Pragma("GCC diagnostic push")        \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 return ____##name(___bpf_kretprobe_args(args));       \
 _Pragma("GCC diagnostic pop")        \
}            \
static __always_inline typeof(name(0)) ____##name(struct pt_regs *ctx, ##args)

/* If kernel has CONFIG_ARCH_HAS_SYSCALL_WRAPPER, read pt_regs directly */
#define ___bpf_syscall_args0()          ctx
#define ___bpf_syscall_args1(x)          ___bpf_syscall_args0(), (void *)PT_REGS_PARM1_SYSCALL(regs)
#define ___bpf_syscall_args2(x, args...) ___bpf_syscall_args1(args), (void *)PT_REGS_PARM2_SYSCALL(regs)
#define ___bpf_syscall_args3(x, args...) ___bpf_syscall_args2(args),
 (void *)PT_REGS_PARM3_SYSCALL(regs)
#define ___bpf_syscall_args4(x, args...) ___bpf_syscall_args3(args), (void *)PT_REGS_PARM4_SYSCALL(regs)
#define ___bpf_syscall_args5(x, args...) ___bpf_syscall_args4(args), (void *)PT_REGS_PARM5_SYSCALL(regs)
#define ___bpf_syscall_args6(x, args...) ___bpf_syscall_args5(args), (void *)PT_REGS_PARM6_SYSCALL(regs)
#define ___bpf_syscall_args7(x, args...) ___bpf_syscall_args6(args), (void *)PT_REGS_PARM7_SYSCALL(regs)
#define ___bpf_syscall_args(args...)     ___bpf_apply(___bpf_syscall_args, ___bpf_narg(args))(args)

/* If kernel doesn't have CONFIG_ARCH_HAS_SYSCALL_WRAPPER, we have to BPF_CORE_READ from
pt_regs */
#define ___bpf_syswrap_args0()          ctx
#define ___bpf_syswrap_args1(x)          ___bpf_syswrap_args0(), (void
*)PT_REGS_PARM1_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args2(x, args...) ___bpf_syswrap_args1(args), (void
*)PT_REGS_PARM2_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args3(x, args...) ___bpf_syswrap_args2(args), (void
 *)PT_REGS_PARM3_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args4(x, args...) ___bpf_syswrap_args3(args), (void
*)PT_REGS_PARM4_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args5(x, args...) ___bpf_syswrap_args4(args), (void
*)PT_REGS_PARM5_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args6(x, args...) ___bpf_syswrap_args5(args), (void
*)PT_REGS_PARM6_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args7(x, args...) ___bpf_syswrap_args6(args), (void
*)PT_REGS_PARM7_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args(args...)     ___bpf_apply(___bpf_syswrap_args, ___bpf_narg(args))(args)
```

```
/*
* BPF_KSYSCALL is a variant of BPF_KPROBE, which is intended for
* tracing syscall functions, like __x64_sys_close. It hides the underlying
* platform-specific low-level way of getting syscall input arguments from
* struct pt_regs, and provides a familiar typed and named function arguments
* syntax and semantics of accessing syscall input parameters.
*
* Original struct pt_regs * context is preserved as 'ctx' argument.
 This might
* be necessary when using BPF helpers like bpf_perf_event_output().
*
* At the moment BPF_KSYSCALL does not transparently handle all the calling
* convention quirks for the following syscalls:
*
* - mmap(): __ARCH_WANT_SYS_OLD_MMAP.
* - clone(): CONFIG_CLONE_BACKWARDS, CONFIG_CLONE_BACKWARDS2 and
*            CONFIG_CLONE_BACKWARDS3.
* - socket-related syscalls: __ARCH_WANT_SYS_SOCKETCALL.
* - compat syscalls.
*
* This may or may not change in the future. User needs to take extra measures
* to handle such quirks explicitly, if necessary.
*
* This macro relies on BPF CO-RE support and virtual __kconfig externs.
*/
#define BPF_KSYSCALL(name, args...)        \
name(struct pt_regs *ctx);         \
extern _Bool LINUX_HAS_SYSCALL_WRAPPER __kconfig;       \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args);        \
typeof(name(0)) name(struct pt_regs *ctx)        \
{            \
 struct pt_regs *regs = LINUX_HAS_SYSCALL_WRAPPER
    \
         ? (struct pt_regs *)PT_REGS_PARM1(ctx)     \
         : ctx;         \
 _Pragma("GCC diagnostic push")         \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 if (LINUX_HAS_SYSCALL_WRAPPER)         \
  return ____##name(___bpf_syswrap_args(args));      \
 else           \
  return ____##name(___bpf_syscall_args(args));      \
 _Pragma("GCC diagnostic pop")         \
}            \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args)

#define BPF_KPROBE_SYSCALL BPF_KSYSCALL
```

/* BPF_UPROBE and BPF_URETPROBE are identical to BPF_KPROBE and BPF_KRETPROBE,
* but are named way less confusingly for SEC("uprobe") and SEC("uretprobe")
* use cases.
*/
#define BPF_UPROBE(name, args...) BPF_KPROBE(name, ##args)
#define BPF_URETPROBE(name, args...) BPF_KRETPROBE(name, ##args)

#endif
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```
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_HELPERS__
#define __BPF_HELPERS__

/*
* Note that bpf programs need to include either
* vmlinux.h (auto-generated from BTF) or linux/types.h
* in advance since bpf_helper_defs.h uses such types
* as __u64.
*/
#include "bpf_helper_defs.h"

#define __uint(name, val) int (*name)[val]
#define __type(name, val) typeof(val) *name
#define __array(name, val) typeof(val) *name[]
#define __ulong(name, val) enum { ___bpf_concat(__unique_value, __COUNTER__) = val } name

/*
* Helper macro to place programs, maps, license in
* different sections in elf_bpf file. Section names
* are interpreted by libbpf depending on the context (BPF programs, BPF maps,
* extern variables, etc).
* To allow use of SEC() with externs (e.g., for extern .maps declarations),
* make sure __attribute__((unused)) doesn't trigger compilation warning.
*/
#if __GNUC__ && !__clang__

/*
* Pragma macros are broken on GCC
* https://gcc.gnu.org/bugzilla/show_bug.cgi?id=55578
 * https://gcc.gnu.org/bugzilla/show_bug.cgi?id=90400
*/
#define SEC(name) __attribute__((section(name), used))
```

```
#else

#define SEC(name) \
 _Pragma("GCC diagnostic push")         \
 _Pragma("GCC diagnostic ignored \"-Wignored-attributes\"")     \
 __attribute__((section(name), used))        \
 _Pragma("GCC diagnostic pop")         \

#endif

/* Avoid 'linux/stddef.h' definition of '__always_inline'. */
#undef __always_inline
#define __always_inline inline __attribute__((always_inline))

#ifndef __noinline
#define __noinline __attribute__((noinline))
#endif
#ifndef __weak
#define __weak __attribute__((weak))
#endif

/*
* Use __hidden attribute to mark a non-static BPF subprogram effectively
* static for BPF verifier's verification algorithm purposes, allowing more
* extensive and permissive BPF verification process, taking into account
* subprogram's caller context.
*/
#define __hidden __attribute__((visibility("hidden")))

/* When utilizing vmlinux.h
 with BPF CO-RE, user BPF programs can't include
* any system-level headers (such as stddef.h, linux/version.h, etc), and
* commonly-used macros like NULL and KERNEL_VERSION aren't available through
* vmlinux.h. This just adds unnecessary hurdles and forces users to re-define
* them on their own. So as a convenience, provide such definitions here.
*/
#ifndef NULL
#define NULL ((void *)0)
#endif

#ifndef KERNEL_VERSION
#define KERNEL_VERSION(a, b, c) (((a) << 16) + ((b) << 8) + ((c) > 255 ? 255 : (c)))
#endif

/*
* Helper macros to manipulate data structures
*/
```

```
/* offsetof() definition that uses __builtin_offset() might not preserve field
* offset CO-RE relocation properly, so force-redefine offsetof() using
* old-school approach which works with CO-RE correctly
*/
#undef offsetof
#define offsetof(type, member) ((unsigned long)&((type *)0)->member)

/* redefined container_of() to ensure we use the above offsetof() macro */
#undef container_of
#define container_of(ptr, type, member)    \
 ({       \
  void
 *__mptr = (void *)(ptr);   \
  ((type *)(__mptr - offsetof(type, member))); \
 })

/*
* Compiler (optimization) barrier.
*/
#ifndef barrier
#define barrier() asm volatile("" ::: "memory")
#endif

/* Variable-specific compiler (optimization) barrier. It's a no-op which makes
* compiler believe that there is some black box modification of a given
* variable and thus prevents compiler from making extra assumption about its
* value and potential simplifications and optimizations on this variable.
*
* E.g., compiler might often delay or even omit 32-bit to 64-bit casting of
* a variable, making some code patterns unverifiable. Putting barrier_var()
* in place will ensure that cast is performed before the barrier_var()
* invocation, because compiler has to pessimistically assume that embedded
* asm section might perform some extra operations on that variable.
*
* This is a variable-specific variant of more global barrier().
*/
#ifndef barrier_var
#define
 barrier_var(var) asm volatile("" : "+r"(var))
#endif

/*
* Helper macro to throw a compilation error if __bpf_unreachable() gets
* built into the resulting code. This works given BPF back end does not
* implement __builtin_trap(). This is useful to assert that certain paths
* of the program code are never used and hence eliminated by the compiler.
*
* For example, consider a switch statement that covers known cases used by
```

```
* the program. __bpf_unreachable() can then reside in the default case. If
* the program gets extended such that a case is not covered in the switch
* statement, then it will throw a build error due to the default case not
* being compiled out.
*/
#ifndef __bpf_unreachable
# define __bpf_unreachable() __builtin_trap()
#endif

/*
* Helper function to perform a tail call with a constant/immediate map slot.
*/
#if __clang_major__ >= 8 && defined(__bpf__)
static __always_inline void
bpf_tail_call_static(void *ctx, const void *map, const __u32 slot)
{
 if
 (!__builtin_constant_p(slot))
  __bpf_unreachable();

 /*
  * Provide a hard guarantee that LLVM won't optimize setting r2 (map
  * pointer) and r3 (constant map index) from _different paths_ ending
  * up at the _same_ call insn as otherwise we won't be able to use the
  * jmpq/nopl retpoline-free patching by the x86-64 JIT in the kernel
  * given they mismatch. See also d2e4c1e6c294 ("bpf: Constant map key
  * tracking for prog array pokes") for details on verifier tracking.
  *
  * Note on clobber list: we need to stay in-line with BPF calling
  * convention, so even if we don't end up using r0, r4, r5, we need
  * to mark them as clobber so that LLVM doesn't end up using them
  * before / after the call.
  */
 asm volatile("r1 = %[ctx]\n\t"
       "r2 = %[map]\n\t"
       "r3 = %[slot]\n\t"
       "call 12"
       :: [ctx]"r"(ctx), [map]"r"(map), [slot]"i"(slot)
       : "r0", "r1", "r2", "r3", "r4", "r5");
}
#endif

enum libbpf_pin_type {
 LIBBPF_PIN_NONE,
 /* PIN_BY_NAME: pin
 maps by name (in /sys/fs/bpf by default) */
 LIBBPF_PIN_BY_NAME,
};
```

```
enum libbpf_tristate {
 TRI_NO = 0,
 TRI_YES = 1,
 TRI_MODULE = 2,
};

#define __kconfig __attribute__((section(".kconfig")))
#define __ksym __attribute__((section(".ksyms")))
#define __kptr_untrusted __attribute__((btf_type_tag("kptr_untrusted")))
#define __kptr __attribute__((btf_type_tag("kptr")))
#define __percpu_kptr __attribute__((btf_type_tag("percpu_kptr")))

#define bpf_ksym_exists(sym) ({         \
 _Static_assert(!__builtin_constant_p(!!sym), #sym " should be marked as __weak"); \
 !!sym;          \
})

#define __arg_ctx __attribute__((btf_decl_tag("arg:ctx")))
#define __arg_nonnull __attribute((btf_decl_tag("arg:nonnull")))
#define __arg_nullable __attribute((btf_decl_tag("arg:nullable")))
#define __arg_trusted __attribute((btf_decl_tag("arg:trusted")))
#define __arg_arena __attribute((btf_decl_tag("arg:arena")))

#ifndef ___bpf_concat
#define ___bpf_concat(a, b) a ## b
#endif
#ifndef ___bpf_apply
#define
 ___bpf_apply(fn, n) ___bpf_concat(fn, n)
#endif
#ifndef ___bpf_nth
#define ___bpf_nth(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _a, _b, _c, N, ...) N
#endif
#ifndef ___bpf_narg
#define ___bpf_narg(...) \
 ___bpf_nth(_, ##__VA_ARGS__, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0)
#endif

#define ___bpf_fill0(arr, p, x) do {} while (0)
#define ___bpf_fill1(arr, p, x) arr[p] = x
#define ___bpf_fill2(arr, p, x, args...) arr[p] = x; ___bpf_fill1(arr, p + 1, args)
#define ___bpf_fill3(arr, p, x, args...) arr[p] = x; ___bpf_fill2(arr, p + 1, args)
#define ___bpf_fill4(arr, p, x, args...) arr[p] = x; ___bpf_fill3(arr, p + 1, args)
#define ___bpf_fill5(arr, p, x, args...) arr[p] = x; ___bpf_fill4(arr, p + 1, args)
#define ___bpf_fill6(arr, p, x, args...) arr[p] = x; ___bpf_fill5(arr, p + 1, args)
#define ___bpf_fill7(arr, p, x, args...) arr[p] = x; ___bpf_fill6(arr, p + 1, args)
#define ___bpf_fill8(arr, p, x, args...) arr[p] = x; ___bpf_fill7(arr, p + 1, args)
```

```
#define ___bpf_fill9(arr, p, x, args...)
 arr[p] = x; ___bpf_fill8(arr, p + 1, args)
#define ___bpf_fill10(arr, p, x, args...) arr[p] = x; ___bpf_fill9(arr, p + 1, args)
#define ___bpf_fill11(arr, p, x, args...) arr[p] = x; ___bpf_fill10(arr, p + 1, args)
#define ___bpf_fill12(arr, p, x, args...) arr[p] = x; ___bpf_fill11(arr, p + 1, args)
#define ___bpf_fill(arr, args...) \
 ___bpf_apply(___bpf_fill, ___bpf_narg(args))(arr, 0, args)

/*
* BPF_SEQ_PRINTF to wrap bpf_seq_printf to-be-printed values
* in a structure.
*/
#define BPF_SEQ_PRINTF(seq, fmt, args...)   \
({        \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
        \
 _Pragma("GCC diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
        \
 bpf_seq_printf(seq, ___fmt, sizeof(___fmt),  \
         ___param, sizeof(___param));  \
})

/*
* BPF_SNPRINTF wraps the bpf_snprintf helper with variadic arguments instead of
 * an array of u64.
*/
#define BPF_SNPRINTF(out, out_size, fmt, args...)  \
({        \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
        \
 _Pragma("GCC diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
        \
 bpf_snprintf(out, out_size, ___fmt,   \
        ___param, sizeof(___param));  \
})

#ifdef BPF_NO_GLOBAL_DATA
#define BPF_PRINTK_FMT_MOD
#else
#define BPF_PRINTK_FMT_MOD static const
```

```
#endif

#define __bpf_printk(fmt, ...)    \
({       \
 BPF_PRINTK_FMT_MOD char ____fmt[] = fmt; \
 bpf_trace_printk(____fmt, sizeof(____fmt), \
    ##__VA_ARGS__);  \
})

/*
* __bpf_vprintk wraps the bpf_trace_vprintk helper with variadic arguments
* instead of an array of u64.
*/
#define __bpf_vprintk(fmt, args...)    \
({        \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
        \
 _Pragma("GCC
 diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
        \
 bpf_trace_vprintk(___fmt, sizeof(___fmt),  \
     ___param, sizeof(___param));  \
})

/* Use __bpf_printk when bpf_printk call has 3 or fewer fmt args
* Otherwise use __bpf_vprintk
*/
#define ___bpf_pick_printk(...) \
 ___bpf_nth(_, ##__VA_ARGS__, __bpf_vprintk, __bpf_vprintk, __bpf_vprintk, \
     __bpf_vprintk, __bpf_vprintk, __bpf_vprintk, __bpf_vprintk,  \
     __bpf_vprintk, __bpf_vprintk, __bpf_printk /*3*/, __bpf_printk /*2*/,\
     __bpf_printk /*1*/, __bpf_printk /*0*/)

/* Helper macro to print out debug messages */
#define bpf_printk(fmt, args...) ___bpf_pick_printk(args)(fmt, ##args)

struct bpf_iter_num;

extern int bpf_iter_num_new(struct bpf_iter_num *it, int start, int end) __weak __ksym;
extern int *bpf_iter_num_next(struct bpf_iter_num *it) __weak __ksym;
extern void bpf_iter_num_destroy(struct bpf_iter_num
 *it) __weak __ksym;

#ifndef bpf_for_each
```

```
/* bpf_for_each(iter_type, cur_elem, args...) provides generic construct for
* using BPF open-coded iterators without having to write mundane explicit
* low-level loop logic. Instead, it provides for()-like generic construct
* that can be used pretty naturally. E.g., for some hypothetical cgroup
* iterator, you'd write:
*
* struct cgroup *cg, *parent_cg = <...>;
*
* bpf_for_each(cgroup, cg, parent_cg, CG_ITER_CHILDREN) {
*     bpf_printk("Child cgroup id = %d", cg->cgroup_id);
*     if (cg->cgroup_id == 123)
*         break;
* }
*
* I.e., it looks almost like high-level for each loop in other languages,
* supports continue/break, and is verifiable by BPF verifier.
*
* For iterating integers, the difference betwen bpf_for_each(num, i, N, M)
* and bpf_for(i, N, M) is in that bpf_for() provides additional proof to
* verifier that i is in [N, M) range, and in bpf_for_each() case i is `int
* *`, not just `int`. So for integers
 bpf_for() is more convenient.
*
* Note: this macro relies on C99 feature of allowing to declare variables
* inside for() loop, bound to for() loop lifetime. It also utilizes GCC
* extension: __attribute__((cleanup(<func>))), supported by both GCC and
* Clang.
*/
#define bpf_for_each(type, cur, args...) for (       \
 /* initialize and define destructor */       \
 struct bpf_iter_##type ___it __attribute__((aligned(8), /* enforce, just in case */, \
         cleanup(bpf_iter_##type##_destroy))), \
 /* ___p pointer is just to call bpf_iter_##type##_new() *once* to init ___it */  \
         *___p __attribute__((unused)) = (    \
     bpf_iter_##type##_new(&___it, ##args),   \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_##type##_destroy() when used from cleanup() attribute */  \
     (void)bpf_iter_##type##_destroy, (void *)0);  \
 /* iteration and termination check */       \
 (((cur) = bpf_iter_##type##_next(&___it)));      \
)
#endif
 /* bpf_for_each */

#ifndef bpf_for
/* bpf_for(i, start, end) implements a for()-like looping construct that sets
* provided integer variable *i* to values starting from *start* through,
* but not including, *end*. It also proves to BPF verifier that *i* belongs
```

```
* to range [start, end), so this can be used for accessing arrays without
* extra checks.
*
* Note: *start* and *end* are assumed to be expressions with no side effects
* and whose values do not change throughout bpf_for() loop execution. They do
* not have to be statically known or constant, though.
*
* Note: similarly to bpf_for_each(), it relies on C99 feature of declaring for()
* loop bound variables and cleanup attribute, supported by GCC and Clang.
*/
#define bpf_for(i, start, end) for (        \
 /* initialize and define destructor */       \
 struct bpf_iter_num ___it __attribute__((aligned(8), /* enforce, just in case */ \
       cleanup(bpf_iter_num_destroy))),  \
 /* ___p pointer is necessary to
 call bpf_iter_num_new() *once* to init ___it */  \
       *___p __attribute__((unused)) = (     \
    bpf_iter_num_new(&___it, (start), (end)),   \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_num_destroy() when used from cleanup() attribute */   \
    (void)bpf_iter_num_destroy, (void *)0);    \
 ({           \
  /* iteration step */        \
  int *___t = bpf_iter_num_next(&___it);      \
  /* termination and bounds check */      \
  (___t && ((i) = *___t, (i) >= (start) && (i) < (end)));    \
 });          \
)
#endif /* bpf_for */

#ifndef bpf_repeat
/* bpf_repeat(N) performs N iterations without exposing iteration number
*
* Note: similarly to bpf_for_each(), it relies on C99 feature of declaring for()
* loop bound variables and cleanup attribute, supported by GCC and Clang.
*/
#define bpf_repeat(N) for (         \
 /* initialize and define destructor */       \
 struct bpf_iter_num ___it __attribute__((aligned(8), /* enforce,
 just in case */ \
       cleanup(bpf_iter_num_destroy))),  \
 /* ___p pointer is necessary to call bpf_iter_num_new() *once* to init ___it */  \
       *___p __attribute__((unused)) = (     \
    bpf_iter_num_new(&___it, 0, (N)),    \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_num_destroy() when used from cleanup() attribute */   \
    (void)bpf_iter_num_destroy, (void *)0);    \
 bpf_iter_num_next(&___it);        \
```

```
 /* nothing here  */        \
)
#endif /* bpf_repeat */

#endif
```

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

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former
contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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A ``library'' means a collection of software functions and/or data
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interface definition files, plus the scripts used to control compilation
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writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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

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

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this
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2 above provided that you accompany
it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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this License. Also, you must do one
of these things:

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

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

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

@item
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@item

Verify that the user has already received a copy of these
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@end enumerate

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reproducing the executable from it. However, as a special exception,
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
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It may happen that this requirement contradicts the license
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@enumerate a
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uncombined with any other library
facilities. This must be distributed under the terms of the
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@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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---
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---
include/winstdint.h is included only for Windows Client support, as follows:

```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)

```
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
```

*
*
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{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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1.1276 protobuf-go 1.33.0

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1.1277 curl 7.81.0-1ubuntu1.21

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*   as needed. This means that data must always be copied to create
*   the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*   Fix is simple: make large buffers large enough to hold entire
*   SDU, and leave <small_buffer_data> bytes empty at the start. Then
*   copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*   buffers. This is done by 2 things:
*   1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to

```
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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static inline int license_is_gpl_compatible(const char *license)
{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
```

```
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  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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1.1281 python-certifi 2025.10.5

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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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1.1283 failureaccess 1.0.1

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* /failureaccess-1-0-1-sources-15-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

1.1284 systemd 249.11-0ubuntu3.17

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```

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
```
```

```
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

```
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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```
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{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
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}

#endif
```

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