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1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
==========

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and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION
 ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.

LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal
documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file

ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics)

omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.

1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't
have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers

archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.
(For example, none
of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation.

We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without
sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 resourcelocator 1.0.1

1.2.1 Available under license :

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1.4 xalan 2.7.2

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 tools/antRun.bat
Source: http://ant.apache.org/
Used By: Xalan's build process: java/build.xml and test/build.xml

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Source: http://www.cs.princeton.edu/~appel/modern/java/JLex
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Integrated with Xalan-Java 2 and Xerces 2.
Source: http://svn.apache.org/viewvc/xml/stylebook/
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David Megginson, david@megginson.com
2000-05-05

1.5 miglayout 3.5.5

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* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/SwingComponentWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/MigLayout.java
*
 /miglayout-3-5-5-sources-jar/net/miginfocom/layout/BoundSize.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ResizeConstraint.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/SwtContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/demo/SwtDemo.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ComponentWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/Grid.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/LC.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ConstraintParser.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/UnitConverter.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/SwingContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swing/MigLayout.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/UnitValue.java
*
 /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/AC.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/PlatformDefaults.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/IDEUtil.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/SwtComponentWrapper.java

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*/
/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and
will not
  * affect the flow or grid positions. The positioning is relative to the parent
 and can not (as padding) be used
  * to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>.
  * <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1
  * and x2 will just absolutely positions the component.
  * <p>
```

```
 * Note that {@link #setBoundsInGrid(boolean)} changes the interpretation of thisproperty slightly.
 * <p>
 * For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at
www.migcomponents.com.
 * @return The current value as a new array, free to modify.
 */
```

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```

*/
/** Returns the gaps as pixel values.
 * @param parent The parent. Used to get the pixel values.
 * @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
 * @param
refSize The reference size used to get the pixel sizes.
 * @param before IF it is the gap before rather than the gap after to return.
 * @return The [min,preferred,max] sizes for the specified gap. Uses {@link
net.miginfocom.layout.LayoutUtil#NOT_SET}
 * for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and
free to use array.
 */

Found in path(s):
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1.6 commons-collections 3.2.2

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1.7 taglibs-standard-spec 1.2.5

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1.8 metrics 2.2.0

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1.12 paranamer 2.8

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

1.15 jaxb-core 2.3.0

1.16 failureaccess 1.0.1

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1.18 hk2-locator 2.5.0

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1.20 hk2-api 2.5.0

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* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/MetricsTracker.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
*
/hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariJNDIFactory.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java

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* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/pool/ProxyLeakTask.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/pool/ProxyResultSet.java
*
 /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/pool/ProxyConnection.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/util/DriverDataSource.java
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/hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
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1.28 javax-ws-rs-api 2.1.1

1.29 bzip2 1.0.8

1.30 spf13-pflag 1.0.3

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1.32 commons-codec 1.6

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1.33 jopt-simple 5.0.4

1.34 jline 2.14.6

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1.39 afero 1.1.2

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1.40 jwalterweatherman 1.0.0

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1.41 ghodss-yaml 1.0.0

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1.44 bean-validation-api 2.0.1.Final

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1.45 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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1.46 net-tools 1.60+git20180626.aebd88e-1ubuntu1

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1.52 libxau 1.0.9-0ubuntu1

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1.54 linux-atm 2.5.1-4

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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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Appendix: How to Apply These Terms to Your New Programs

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

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

<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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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 c'; they could even be mouse-clicks or menu items--whatever suits your program.

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`Gnomovision' (which makes
passes at compilers) written by James Hacker.

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

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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.]

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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.

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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.

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Finally, any free program is threatened constantly by software
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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.

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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
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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.

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
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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.

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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:

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must itself be a software library.

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

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, 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.

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 License.

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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.

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 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 compile 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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the work with a written offer, valid for at
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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 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
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b) 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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1.58 dash 0.5.10.2-6

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1.59 jsp 2.3.FR

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1.60 slf4j 1.7.26

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 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

 <html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
    <title>SLF4J License</title>
    <link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
  </head>
  <body>
    <script type="text/javascript">prefix='';</script>

    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
    <div id="right">
      <script src="templates/right.js" type="text/javascript"></script>
    </div>
```

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1.61 jansson 2.12-1build1

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audio-channel-front-left
audio-channel-front-right
audio-channel-rear-center
audio-channel-rear-left
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1.66 gpm 1.20.7-5

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1.67 zap 1.13.0

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1.68 gorilla 1.7.3

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1.69 pkg-sftp 1.10.1

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1.70 libxrender 0.9.10-1

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1.71 libxtst 1.2.3-1

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1.72 jboss-logging 3.4.1.Final

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1.75 flowrate 0.0.0-20140419014527-cca7078d478f

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1.76 pyasn1-modules 0.2.8

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1.77 urllib3 1.25.8

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Contributions to the urllib3 project

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Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>

* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
 * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
 * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
 * Google App Engine documentation

* Aaron Meurer
 <asmeurer@gmail.com>
 * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
 * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
 * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
 * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
 * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
 * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
 * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
 * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
 * App Engine environment tests.
 * Documentation re-write.

* John Krauss <https://github.com/talos>
 * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
 * Fix pool-default headers not applying for url-encoded
 requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>

 * Logging efficiency
improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>

* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
* Improve contribution guide
* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header
regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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1.78 slf4j 1.7.30

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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.

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.

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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
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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.

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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
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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.

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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

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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.

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.

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1.84 iputils 20190709-3

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1.88 mawk 1.3.4.20200120-2

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1.90 libogg 1.3.4-0ubuntu1

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From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
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Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw_VJAQNFZebm74k195zz+Q@mail.gmail.com>
Subject: Re: Distributing the libogg RFCs in the Debian package
To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
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1.91 iproute 5.5.0-1ubuntu1

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1.93 libxcb 1.14-2

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1.98 vixie-cron 3.0pl1-136ubuntu1

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```

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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
 /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
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.\"
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

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*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have

a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

```
 crontab -u uucp -r /usr/lib/uucp/crontab.src
 crontab -u news -r /usr/lib/news/crontab.src
 crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
 no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root.  When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally.  (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
 be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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*/

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that

```
  some things in config.h are definable in Makefile and are
  therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
 (you may have to install the man pages by hand)
kill your existing cron process
 (actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
 (either put them all in "root"'s crontab, or divide it up
  and rip out all the 'su' commands, collapse the lengthy
  lists into
ranges with steps -- basically, this step is
  as much work as you want to make it)
start up the new cron
 (must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
 changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
 the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $
```

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.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
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1.99 rcrowley-go-metrics 0.0.0-20190706150252-9beb055b7962

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1.100 go-grpc-prometheus 1.2.0

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1.102 pierrec-lz4 2.2.6+incompatible

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metrics from the pseudo-filesystem proc.

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#
Use the following command to generate the list
#
git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
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Protocol Buffers for Go with Gadgets

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

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1.110 gopsutil 2.20.5+incompatible

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1.111 libpsl 0.21.0-1ubuntu1

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1.112 libtool 2.4.6-14

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1.116 go-runewidth 0.0.9

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1.117 adduser 3.118ubuntu2

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1.119 debianutils 4.9.1

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1.122 sed 4.7-1

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1.123 libffi 3.3-4

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Upstream-Contact: Colin Watson <cjwatson@debian.org>

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1.127 bzip2 1.0.8-2

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

1.128 cracklib 2.9.6-3.2

1.128.1 Available under license :

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Random Hacker.

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

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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
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=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:
> > 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...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > 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...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> 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
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

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

1.129 go-md2man 2.0.0

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1.130 apr 1.6.5-1ubuntu1

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,

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 dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
* Copyright (c) 1992,1993,1995,1996,1997,1988
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From strings/apr_strnatcmp.c,
include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>

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From
strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.
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*

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1.131 lua 5.2.4-1.1build3

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1.132 libxi 1.7.10-0ubuntu1

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1.137 bcpkix-fips 1.0.3

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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

1.138 jctools-core 3.1.0

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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>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-surefire-plugin</artifactId>
   <version>3.0.0-M3</version>
   <configuration>
    <includes>
     <include>*</include>
    </includes>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.felix</groupId>
   <artifactId>maven-bundle-plugin</artifactId>
   <version>4.2.1</version>
   <extensions>true</extensions>
   <configuration>
    <instructions>
     <Import-Package>sun.misc;resolution:=optional</Import-Package>
    </instructions>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-source-plugin</artifactId>
   <version>3.2.0</version>
   <executions>
    <execution>
```

```
    <id>attach-sources</id>
    <phase>verify</phase>
    <goals>
     <goal>jar-no-fork</goal>
    </goals>
   </execution>
  </executions>
 </plugin>
 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
   <additionalOptions>
    <additionalOption>-Xdoclint:none</additionalOption>
   </additionalOptions>
   <source>8</source>
  </configuration>
  <executions>
   <execution>
    <id>attach-javadocs</id>
    <goals>
     <goal>jar</goal>
    </goals>
   </execution>
  </executions>
 </plugin>
</plugins>
</build>

<distributionManagement>
 <repository>
  <id>bintray-jctools-jctools</id>
  <name>jctools-jctools</name>
  <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
 </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
 <license>
  <name>Apache
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  <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):
* /jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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*/

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* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscLinkedQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java

* /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/util/InternalAPI.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java
* /jctools-core-3-1-0-sources-jar/org/jctools/util/Pow2.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscChunkedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/LinkedQueueNode.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscUnboundedArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/util/PortableJvmInfo.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingSetInt.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscLinkedQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscChunkedArrayQueue.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/QueueFactory.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeAccess.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscGrowableAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscGrowableArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/util/RangeUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpscLinkedArrayQueue.java

1.139 commons-lang3 3.1

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1.140 jackson-jaxrs-base 2.9.9

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1.141 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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1.144 properties 1.8.4

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1.145 httpcomponents-client 4.5.13

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1.147 libyaml 0.2.5

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1.148 openorb 1.3.1

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1.152 pyasn1 0.4.8

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
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Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
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1.153 queue 1.1.0

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1.156 lockfile 0.12.2

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1.158 iconv 2.31

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1. Source Code.

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.\" @(#)bitstring.3 5.1
 (Berkeley) 12/13/89
.\"

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.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.

you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally. (3) the `-r'
option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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.\"
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*/

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron

(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

1.160 attr 2.4.48-5

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Version 2.1, February 1999

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1.163 mime-support 3.64ubuntu1

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1.164 shared-mime-info 1.15-1

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1.166 okhttp 3.12.12

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 /okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/CertificateChainCleaner.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectInterceptor.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RealConnection.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/OkHostnameVerifier.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/Connection.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionPool.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/OptionalMethod.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheInterceptor.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/FaultHidingSink.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/Authenticator.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/CookieJar.java
*
 /okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteException.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpCodec.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpHeaders.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/Address.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/CertificatePinner.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketWriter.java
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 /okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketProtocol.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/Call.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheRequest.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/PushObserver.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/RequestBody.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/CipherSuite.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/Version.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/ConscryptPlatform.java
*
 /okhttp-3-12-12-sources-1-jar/okhttp3/MultipartBody.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/ErrorCode.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheStrategy.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/Route.java
*
 /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RequestLine.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/StatusLine.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/Response.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/Dispatcher.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/InternalCache.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/NamedRunnable.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteDatabase.java
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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Connection.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Stream.java
*
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* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/RealWebSocket.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/CallServerInterceptor.java
*
 /okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/UnrepeatableRequestBody.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/WebSocketListener.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/FileOperator.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/Relay.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/AndroidPlatform.java
* /okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/TrustRootIndex.java
* /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
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1.170 libxcrypt 4.4.10-10ubuntu4

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1.174 commons-lang3 2.6

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/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
```

```
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
  /**
   * Used by function calls with no args.
   */
  static public final Vector EmptyArgs = new Vector(0);

  /**
   * Reference to non-existing variable.
   */
  static public final VariableRef DummyVarRef = null;

  /**
   * Reference to the Parser class.
   */
  private Parser _parser;
  private XSLTC  _xsltc;

  /**
   * String representation of the expression being parsed.
   */
  private String _expression;

  /**
   * Line number where this expression/pattern
 was declared.
   */
  private int _lineNumber = 0;

  /**
   * Reference to the symbol table.
   */
  public SymbolTable _symbolTable;

  public XPathParser(Parser parser) {
      _parser = parser;
_xsltc = parser.getXSLTC();
      _symbolTable = parser.getSymbolTable();
  }

  public int getLineNumber() {
```

```
    return _lineNumber;
  }

  public QName getQNameIgnoreDefaultNs(String name) {
      return _parser.getQNameIgnoreDefaultNs(name);
  }

  public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
  }

  public void setMultiDocument(boolean flag) {
      _xsltc.setMultiDocument(flag);
  }

  public void setCallsNodeset(boolean flag) {
      _xsltc.setCallsNodeset(flag);
  }

  public void setHasIdCall(boolean flag) {
      _xsltc.setHasIdCall(flag);
  }


  /**
   * This
method is similar to findNodeType(int, Object) except that it
   * creates a StepPattern instead of just returning a node type. It also
   * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
   * patterns are expanded as "*[namespace-uri() = 'uri']" and
   * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
   * simplifies the grouping of patterns in the Mode class. For this
   * expansion to be correct, the priority of the pattern/template must be
   * set to -0.25 (when no other predicates are present).
   */
  public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
      }
      else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();
```

```
  return new StepPattern(axis, nodeType, predicates);
     }
     else {
   QName name = (QName)test;
   boolean setPriority = false;

   if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
  : _xsltc.registerNamespacePrefix(name);;
        }
   else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
 predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
 new Predicate(
     new EqualityExpr(Operators.EQ,
  new NamespaceUriCall(namespace_uri),
  new LiteralExpr(uri))));
}

if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
}
   }

   final StepPattern result = new StepPattern(axis, nodeType, predicates);
```

```
   // Set priority for case prefix:* and prefix:@* (no predicates)
   if (setPriority) {
 result.setPriority(-0.25);
   }

   return result;
}
 }

 public int findNodeType(int axis, Object test) {
if (test == null) {  // *
   return (axis == Axis.ATTRIBUTE) ?
 NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
     }
     else if (test instanceof Integer) {
        return ((Integer)test).intValue();
     }
     else {
   QName name = (QName)test;

   if (axis == Axis.NAMESPACE) {
 return (name.toString().equals("*"))
? -1
    : _xsltc.registerNamespacePrefix(name);
        }

   if (name.getNamespace() == null) {
 final String local = name.getLocalPart();

 if (local.equals("*")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
 }
   }

   return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
     }
 }

 /**
  * Parse the expression passed to the current scanner. If this
  * expression contains references to local variables and it will be
  * compiled in an external module (not in the main class) request
```

```
   * the current template to create a new variable stack frame.
   *
   * @param lineNumber Line where the current expression is defined.
   * @param external   Set to <tt>true</tt> if this expression is
   *                   compiled in a separate module.
   *

   */
  public Symbol parse(String expression, int lineNumber) throws Exception {
     try {
   _expression = expression;
   _lineNumber = lineNumber;
   return super.parse();
     }
     catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                    lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
     }
     return null;
  }

  /**
   * Lookup a variable or parameter in the symbol table given its name.
   *
   * @param name Name of the symbol being looked up.
   */
  final SyntaxTreeNode lookupName(QName name) {
     // Is it a local var or param ?
     final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
        return(result);
     else
    return(_symbolTable.lookupName(name));
  }

  public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR,
error);
  }

  public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
_parser.reportError(Constants.FATAL, err);
  }

  public void report_fatal_error(String message, Object info) {
```

```
      // empty
  }

  public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
 if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
 }
 else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
 }
 else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
 }
  }

  /**
   * Returns true if the axis applies to elements only. The axes
   * child, attribute, namespace, descendant
 result in non-empty
   * nodesets only if the context node is of type element.
   */
  public boolean isElementAxis(int axis) {
 return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
  axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
  }
:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
```

```
non terminal Expression Predicate, FilterExpr, Step;
non
 terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal
 Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
        {: RESULT = pattern; :}

        | EXPRESSION Expr:expr
        {: RESULT = expr; :};

/* --------------------------- Patterns ---------------------------------- */
```

```
Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}

        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};

LocationPathPattern ::= SLASH
        {: RESULT = new AbsolutePathPattern(null); :}

        | SLASH RelativePathPattern:rpp
        {: RESULT = new AbsolutePathPattern(rpp); :}

        | IdKeyPattern:ikp

      {: RESULT = ikp; :}

        | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(ikp, rpp); :}

        | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(ikp, rpp); :}

        | DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(rpp); :}

        | RelativePathPattern:rpp
        {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
        {: RESULT = new IdPattern(l);
          parser.setHasIdCall(true);
        :}

        | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
        {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
        {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
        {: RESULT = sp; :}

        | StepPattern:sp SLASH RelativePathPattern:rpp
        {: RESULT
 = new ParentPattern(sp, rpp); :}

        | StepPattern:sp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(sp, rpp); :};
```

```
StepPattern ::= NodeTestPattern:nt
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
        :}

        | NodeTestPattern:nt Predicates:pp
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
        :}

        | ProcessingInstructionPattern:pip
        {: RESULT = pip; :}

    | ProcessingInstructionPattern:pip Predicates:pp
        {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

        | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, null);
        :}

    | ChildOrAttributeAxisSpecifier:axis
   NodeTestPattern:nt Predicates:pp
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
         :}

        | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
        {:
      RESULT = pip;  // TODO: report error if axis is attribute
    :}

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
  Predicates:pp
        {:
      // TODO: report error if axis is attribute
      RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern ::= NameTestPattern:nt
        {: RESULT = nt; :}

        | NODE
        {: RESULT = new Integer(NodeTest.ANODE); :}

        | TEXT
        {: RESULT = new Integer(NodeTest.TEXT); :}
```

```
        | COMMENT
        {: RESULT = new Integer(NodeTest.COMMENT); :}

        | PI
        {: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN

        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD DCOLON
        {: RESULT = new Integer(Axis.CHILD); :}

        | ATTRIBUTE DCOLON
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
        {:
  Vector temp = new Vector();
  temp.addElement(p);
  RESULT = temp;
        :}

        | Predicate:p Predicates:pp
        {: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::=  LBRACK Expr:e RBRACK
    {:
  RESULT = new Predicate(e);
    :};

/* -------------------------- Expressions -------------------------------- */

Expr ::= OrExpr:ex
      {: RESULT = ex; :};

OrExpr ::= AndExpr:ae
      {: RESULT = ae; :}

      | OrExpr:oe OR AndExpr:ae
      {: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};
```

```
AndExpr ::= EqualityExpr:e
      {: RESULT = e; :}

      | AndExpr:ae AND EqualityExpr:ee
      {: RESULT = new LogicalExpr(LogicalExpr.AND,
 ae, ee); :};

EqualityExpr ::= RelationalExpr:re
      {: RESULT = re; :}

      | EqualityExpr:ee EQ RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

      | EqualityExpr:ee NE RelationalExpr:re
      {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
      {: RESULT = ae; :}

      | RelationalExpr:re LT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

      | RelationalExpr:re GT AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

      | RelationalExpr:re LE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

      | RelationalExpr:re GE AdditiveExpr:ae
      {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
      {: RESULT = me; :}

      | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.PLUS,
 ae, me); :}

      | AdditiveExpr:ae MINUS MultiplicativeExpr:me
      {: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
      {: RESULT = ue; :}

      | MultiplicativeExpr:me MULT UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}
```

```
        | MultiplicativeExpr:me DIV UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

        | MultiplicativeExpr:me MOD UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
        {: RESULT = ue; :}

        | MINUS UnaryExpr:ue
        {: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
        {: RESULT = pe; :}

        | PathExpr:pe VBAR UnionExpr:rest
        {: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
        {: RESULT = lp; :}

        | FilterExpr:fexp
        {: RESULT = fexp; :}

        | FilterExpr:fexp
    SLASH RelativeLocationPath:rlp
        {: RESULT = new FilterParentPath(fexp, rlp); :}

        | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
        {:
          //
      // Expand '//' into '/descendant-or-self::node()/' or
      // into /descendant-or-self::*/
      //
      int nodeType = DOM.NO_TYPE;
      if (rlp instanceof Step &&
          parser.isElementAxis(((Step) rlp).getAxis()))
      {
          nodeType = DTM.ELEMENT_NODE;
      }
          final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
          FilterParentPath fpp = new FilterParentPath(fexp, step);
          fpp = new FilterParentPath(fpp, rlp);
          if (fexp instanceof KeyCall == false) {
              fpp.setDescendantAxis();
      }
          RESULT = fpp;
        :};
```

```
LocationPath ::= RelativeLocationPath:rlp
      {: RESULT = rlp; :}

      | AbsoluteLocationPath:alp
      {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
      {: RESULT
 = step; :}

      | RelativeLocationPath:rlp SLASH Step:step
      {:
      if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
           RESULT = step;       // Remove './' from the middle
      }
      else if (((Step) step).isAbbreviatedDot()) {
           RESULT = rlp;        // Remove '/.' from the end
      }
      else {
          RESULT =
            new ParentLocationPath((RelativeLocationPath) rlp, step);
        }
      :}

      | AbbreviatedRelativeLocationPath:arlp
      {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
      {: RESULT = new AbsoluteLocationPath(); :}

      | SLASH RelativeLocationPath:rlp
      {: RESULT = new AbsoluteLocationPath(rlp); :}

      | AbbreviatedAbsoluteLocationPath:aalp
      {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
      {:
    final Step right  = (Step)step;
          final
 int  axis   = right.getAxis();
          final int  type   = right.getNodeType();
          final Vector predicates = right.getPredicates();

          if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
             // Compress './/child:E' into 'descendant::E' - if possible
             if (predicates == null) {
```

```
            right.setAxis(Axis.DESCENDANT);
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
          RESULT = right;
            }
            else {
              // Expand 'rlp//child::E' into 'rlp/descendant::E'
              RelativeLocationPath left = (RelativeLocationPath)rlp;
          RESULT = new ParentLocationPath(left, right);
            }
          }
          else {
            // Expand './/step' -> 'descendant-or-self::*/step'
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

      Step left = new Step(Axis.DESCENDANTORSELF,
   DTM.ELEMENT_NODE, null);
              RESULT = new ParentLocationPath(left, right);
            }
            else {
              // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
              RelativeLocationPath left = (RelativeLocationPath)rlp;
              Step mid = new Step(Axis.DESCENDANTORSELF,
   DTM.ELEMENT_NODE, null);
              ParentLocationPath ppl = new ParentLocationPath(mid, right);
              RESULT = new ParentLocationPath(left, ppl);
            }
          }
      }
      else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
          // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
          RelativeLocationPath left = (RelativeLocationPath)rlp;
          Step middle = new Step(Axis.DESCENDANTORSELF,
   DTM.ELEMENT_NODE, null);

          ParentLocationPath ppl = new ParentLocationPath(middle, right);
          RESULT = new ParentLocationPath(left, ppl);
  }
  else {
     // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
          RelativeLocationPath left = (RelativeLocationPath)rlp;
     Step middle = new Step(Axis.DESCENDANTORSELF,
   DOM.NO_TYPE, null);
          ParentLocationPath ppl = new ParentLocationPath(middle, right);
     RESULT = new ParentLocationPath(left, ppl);
  }
    :};
```

```
AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
   {
      nodeType = DTM.ELEMENT_NODE;
   }
   final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
   RESULT =
 new AbsoluteLocationPath(parser.insertStep(step,
   (RelativeLocationPath) rlp));
 :};

Step ::= NodeTest:ntest
      {:
         if (ntest instanceof Step) {
            RESULT = (Step)ntest;
         }
         else {
  RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
         }
      :}

      | NodeTest:ntest Predicates:pp
      {:
         if (ntest instanceof Step) {
            Step step = (Step)ntest;
            step.addPredicates(pp);
            RESULT = (Step)ntest;
         }
         else {
            RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest), pp);
         }
      :}

      | AxisSpecifier:axis NodeTest:ntest Predicates:pp
      {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                     pp);
      :}
```

```
    | AxisSpecifier:axis NodeTest:ntest
    {: RESULT = new Step(axis.intValue(),
                         parser.findNodeType(axis.intValue(), ntest),
                         null);
    :}

    | AbbreviatedStep:abbrev
    {: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
    {: RESULT = an; :}

    | ATSIGN
    {: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::=    ANCESTOR
    {: RESULT = new Integer(Axis.ANCESTOR); :}

    | ANCESTORORSELF
    {: RESULT = new Integer(Axis.ANCESTORORSELF); :}

    | ATTRIBUTE
    {: RESULT = new Integer(Axis.ATTRIBUTE); :}

    | CHILD
    {: RESULT = new Integer(Axis.CHILD); :}

    | DESCENDANT
    {: RESULT = new Integer(Axis.DESCENDANT); :}

    | DESCENDANTORSELF
    {: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

    | FOLLOWING
    {: RESULT = new
 Integer(Axis.FOLLOWING); :}

    | FOLLOWINGSIBLING
    {: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

    | NAMESPACE
    {: RESULT = new Integer(Axis.NAMESPACE); :}

    | PARENT
    {: RESULT = new Integer(Axis.PARENT); :}

    | PRECEDING
```

```
        {: RESULT = new Integer(Axis.PRECEDING); :}

        | PRECEDINGSIBLING
        {: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

        | SELF
        {: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
        {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

        | DDOT
        {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::=  PrimaryExpr:primary
        {: RESULT = primary; :}

        | PrimaryExpr:primary Predicates:pp
        {: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
        {: RESULT = vr; :}

        | LPAREN Expr:ex RPAREN
        {: RESULT = ex; :}

| Literal:string
{:

/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
   final String prefix = string.substring(0, index);
   namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
     : new LiteralExpr(string, namespace);
:}

        | INT:num
        {:
```

```
  long value = num.longValue();
  if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
 RESULT = new RealExpr(value);
  }
  else {
        if (num.doubleValue() == -0)
          RESULT = new RealExpr(num.doubleValue());
        else if (num.intValue() == 0)
          RESULT = new IntExpr(num.intValue());

     else if (num.doubleValue() == 0.0)
          RESULT = new RealExpr(num.doubleValue());
        else
          RESULT = new IntExpr(num.intValue());
  }
    :}

    | REAL:num
    {: RESULT = new RealExpr(num.doubleValue()); :}

    | FunctionCall:fc
    {: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
    {:
      // An empty qname prefix for a variable or parameter reference
      // should map to the null namespace and not the default URI.
      SyntaxTreeNode node = parser.lookupName(varName);

      if (node != null) {
        if (node instanceof Variable) {
          RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
          RESULT = new ParameterRef((Param)node);
        }
        else {
          RESULT = new UnresolvedRef(varName);
         }
      }

      if (node == null) {
        RESULT = new UnresolvedRef(varName);
      }
    :};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
    {:
```

```
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
      RESULT = new CurrentCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
      RESULT = new NumberCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
      RESULT = new StringCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
      RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
      RESULT = new BooleanExpr(true);
}
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {

 RESULT = new BooleanExpr(false);
}
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
      RESULT = new NameCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
      RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
      RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
      RESULT = new PositionCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
      RESULT = new LastCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
      RESULT = new LocalNameCall(fname);
}
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
      RESULT = new NamespaceUriCall(fname);

}
    else {
      RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
   :}

   | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
```

```
    {:
      if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
     parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
        RESULT = new BooleanCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

     RESULT = new NameCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
        RESULT = new NotCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
        RESULT = new FormatNumberCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
        RESULT = new UnparsedEntityUriCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
        RESULT = new KeyCall(fname, argl);
        parser.setHasIdCall(true);
    }
      else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
   {
        RESULT = new CeilingCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
        RESULT = new RoundCall(fname, argl);
    }
      else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
```

```
        RESULT = new FloorCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
        RESULT = new ContainsCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
        RESULT = new StartsWithCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
        RESULT = new FunctionAvailableCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
        RESULT = new ElementAvailableCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
        RESULT = new LangCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname, argl);
  }
      else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
        RESULT = new CastCall(fname, argl);
  }
  // Special case for extension function nodeset()
      else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
        RESULT = new FunctionCall(fname, argl);
  }
      else {
        RESULT = new FunctionCall(fname, argl);
  }
  :};

NonemptyArgumentList
 ::= Argument:arg
      {:
        Vector temp = new Vector();
        temp.addElement(arg);
        RESULT = temp;
      :}
```

```
      | Argument:arg COMMA NonemptyArgumentList:argl
      {: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
      {:
    RESULT = fname;
 :};

VariableName ::= QName:vname
      {:
    RESULT = vname;
 :};

Argument ::= Expr:ex
      {: RESULT = ex; :};

NodeTest ::= NameTest:nt
      {: RESULT = nt; :}

      | NODE
      {: RESULT = new Integer(NodeTest.ANODE); :}

      | TEXT
      {: RESULT = new Integer(NodeTest.TEXT); :}

      | COMMENT
      {: RESULT = new Integer(NodeTest.COMMENT); :}

      | PIPARAM LPAREN Literal:l RPAREN
      {:
        QName name = parser.getQNameIgnoreDefaultNs("name");
        Expression exp = new EqualityExpr(Operators.EQ,
                                  new NameCall(name),
                                   new LiteralExpr(l));
        Vector predicates = new Vector();
        predicates.addElement(new Predicate(exp));
        RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
      :}

      | PI
      {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
          {: RESULT = null; :}

          | QName:qn
          {: RESULT = qn; :};
```

```
QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

 | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

    | ANCESTOR
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | ANCESTORORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

    | ATTRIBUTE
    {: RESULT
 = parser.getQNameIgnoreDefaultNs("attribute"); :}

    | CHILD
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | DESCENDANT
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

    | DESCENDANTORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

    | FOLLOWING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

    | FOLLOWINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

    | NAMESPACE
    {: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

    | PARENT
    {: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

    | PRECEDING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

    | PRECEDINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}
```

```
    | SELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}


  | ID
    {: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * Major version number.
  * Version number. This changes only when there is a
  *         significant, externally apparent
 enhancement from
  *         the previous release. 'n' represents the n'th
  *         version.
  *
  *         Clients should carefully consider the implications
  *         of new versions as external interfaces and behaviour
  *         may have changed.
  */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* This is a special exception that is used to stop parsing when
* search for an element.  For instance, when searching
 for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
```

```
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
      int last;

      void initialize() {
         last = -1;
      }

      static boolean isWhitespace(int c) {
         return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
      }

      /**
       * If symbol is not followed by '::' or '(', then treat it as a
       * name instead of an axis or function (Jira-1912).
       */
      Symbol disambiguateAxisOrFunction(int ss) throws Exception {
         // Peek in the input buffer without changing the internal state
         int index = yy_buffer_index;

         // Skip whitespace
         while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
         }

         // If end of buffer, can't disambiguate :(

       if (index >= yy_buffer_read) {
            // Can't disambiguate, so return as symbol
            return new Symbol(ss);
```

```
        }

        // Return symbol if next token is '::' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
                yy_buffer[index] == '(') ?
                newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * name instead of a keyword (Jira-1912).
     */
    Symbol disambiguateOperator(int ss) throws Exception {
        switch (last) {
        case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case
sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
        }
        return newSymbol(ss);
    }

    /**
     * If symbol is first token or if it follows any of the operators
     * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
     * wildcard instead of a multiplication operator
     */
```

```
    Symbol disambiguateStar() throws Exception {
      switch (last) {
      case -1:    // first token
      case sym.ATSIGN:
      case sym.DCOLON:
      case sym.LPAREN:
      case sym.LBRACK:
      case sym.COMMA:

case sym.AND:
      case sym.OR:
      case sym.MOD:
      case sym.DIV:
      case sym.MULT:
      case sym.SLASH:
      case sym.DSLASH:
      case sym.VBAR:
      case sym.PLUS:
      case sym.MINUS:
      case sym.EQ:
      case sym.NE:
      case sym.LT:
      case sym.LE:
      case sym.GT:
      case sym.GE:
        return newSymbol(sym.STAR);
      }
      return newSymbol(sym.MULT);
    }

    Symbol newSymbol(int ss) {
      last = ss;
      return new Symbol(ss);
    }

    Symbol newSymbol(int ss, String value) {
      last = ss;
      return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Long value) {
      last = ss;
      return new Symbol(ss, value);
    }

    Symbol newSymbol(int ss, Double value) {
      last = ss;
      return new
```

```
 Symbol(ss, value);
      }
%}

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]


CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
```

```
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-
\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-
\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-
\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-
\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]


Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-
\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-
\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."|"-"|"_"|{CombiningChar}|{Extender}|{NCNameStartChar}|
 \u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                 { return disambiguateStar(); }
"/"                 { return newSymbol(sym.SLASH); }
"+"                 { return newSymbol(sym.PLUS); }
"-"                 { return newSymbol(sym.MINUS); }
"div"               { return disambiguateOperator(sym.DIV); }
"mod"               { return disambiguateOperator(sym.MOD); }
"::"                { return newSymbol(sym.DCOLON); }
","                 { return newSymbol(sym.COMMA); }
"@"                 { return newSymbol(sym.ATSIGN); }
".."                { return newSymbol(sym.DDOT); }
"|"
  { return newSymbol(sym.VBAR); }
"$"                 { return newSymbol(sym.DOLLAR); }
"//"                { return newSymbol(sym.DSLASH); }
"="                 { return newSymbol(sym.EQ); }
"!="                { return newSymbol(sym.NE); }
```

```
"<"                    { return newSymbol(sym.LT); }
">"                    { return newSymbol(sym.GT); }
"<="                   { return newSymbol(sym.LE); }
">="                   { return newSymbol(sym.GE); }
"id"                   { return disambiguateAxisOrFunction(sym.ID); }
"key"                  { return disambiguateAxisOrFunction(sym.KEY); }
"text()"               { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"               { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"            { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction"
 { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"          { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"                   { return disambiguateOperator(sym.OR); }
"and"                  { return disambiguateOperator(sym.AND); }
"child"                { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"            { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"             { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"     { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"           { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"   { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"            { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"    { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING);
 }
"namespace"            { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"               { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"            { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"    { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"                 { return disambiguateAxisOrFunction(sym.SELF); }
"["                    { return newSymbol(sym.LBRACK); }
"]"                    { return newSymbol(sym.RBRACK); }
"("                    { return newSymbol(sym.LPAREN); }
")"                    { return newSymbol(sym.RPAREN); }
"<PATTERN>"            { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"         { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"             { return newSymbol(sym.Literal,
      yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'             { return newSymbol(sym.Literal,
      yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+               { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?   { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+            { return newSymbol(sym.REAL, new Double(yytext())); }
"."                    { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
```

```
({NCName}":")?"*"        { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"       { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]              { /* ignore white space. */ }
.                        { throw new Exception(yytext()); }
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
No license file was found, but licenses were detected in source scan.

```
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* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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```

* limitations under the License.
*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/XSLTCSource.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTableVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_he.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncRound.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IntExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Fallback.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LangCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionsTable.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java
*
/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CastExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/TransletException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringBufferPool.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
*
/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLang.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2SAX.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_tr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/PredicatedNodeTest.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpCodes.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_hy.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_de.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/util/IntegerArray.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XString.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_de.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/DescendantIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToXMLStream.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemText.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterParentPath.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Sort.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLast.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CeilingCall.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function3Args.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/URI.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RealType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/DecimalFormatProperties.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/NamespaceMappings.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValue.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_tr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Key.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncId.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ContainsCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_sv.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/LongArrayWrapper.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemPI.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/output/StringOutputBuffer.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringDefault.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource_Xerces.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeSortRecord.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNormalizeSpace.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RtMethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMSafeStringPool.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/BasisLibrary.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Parameter.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSetForDOM.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCopy.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerConstants.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/LSSerializerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/VariableRefBase.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactoryDefault.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemComment.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeSet.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Lexer.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/DOM3Serializer.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Predicate.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/utils/NodeVector.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SuballocatedIntVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SingleNodeCounter.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SerializableLocatorImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/EnvironmentCheck.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltStrings.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundle.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/XUnresolvedVariableSimple.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_tr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AlternativePattern.java
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 /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Neg.java
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*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{

 /**
  * Get the basic version string for the current Serializer.
  * Version String formatted like
  * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command
 line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
```

```
{
  System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
  return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *          may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This
changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static int getReleaseVersionNum()
```

```
{
 return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
 return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *         a specific release. D01 is the first development
drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
 try {
    if ((new String("@version.DEVELOPER@")).length() == 0)
      return 0;
    else
      return Integer.parseInt("@version.DEVELOPER@");
 } catch (NumberFormatException nfe) {
       return 0;
 }
}
}
```

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*/
// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
   System.out.println(S_VERSION);
 }

 /**
  * Constant name of product.
  */
 public static final String PRODUCT = "Xalan";

 /**
  * Implementation Language.
  */
 public static final String LANGUAGE = "Java";
```

```
/**
 * Major version number.
 * Version number. This changes only when there is a
 *      significant, externally apparent enhancement from
 *      the previous release. 'n' represents the n'th
 *      version.
 *
 *      Clients should carefully consider
the implications
 *      of new versions as external interfaces and behaviour
 *      may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *      drop applied to a specific release and contains
 *      fixes for defects reported. It maintains compatibility
 *      with the release and contains no API changes.
 *      When missing, it designates the final and complete
 *      development drop for a release.
 */
public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *      a specific release. D01 is the first development drop
 *      of a new release.
 *
 *      Development drops are works in progress towards a
 *      compeleted, final release. A specific development drop
 *      may not completely implement all aspects of a new
 *      feature, which may take several development drops to
 *      complete. At the point of the final drop for the
```

```
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
                          +VERSION+"."+RELEASE+"."
                          +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
                           : (""+MAINTENANCE));

}
```

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*/
```

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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
 */
```

Found in path(s):
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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative
 class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
* org.apache.xalan.processor.Version class.</P>
```

```
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

 /**
  * Get the basic version string for the current Xalan release.
  * Version String formatted like
  * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."

      +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
  * Name of product: Xalan.
  */
 public static String getProduct()
 {
  return "Xalan";
 }

 /**
  * Implementation Language: Java.
  */
 public static String getImplementationLanguage()
 {
```

```
 return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *
        may have changed.
 */
public static int getMajorVersionNum()
{
 return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *           - a new set of functionality is to be added, eg,
 *             implementation of a new W3C specification.
 *           - API or behaviour change.
 *           - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
 return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *          drop applied to a specific release and contains
 *          fixes for defects reported. It maintains compatibility
 *          with the release and contains no API changes.
 *          When missing, it designates the final and complete
 *          development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
 return
```

```
@version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *         a specific release. D01 is the first development drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
      if ((new String("@version.DEVELOPER@")).length() == 0)
        return 0;
      else
        return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
         return 0;
  }
 }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

1.177 commons-cli 1.4

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1.178 jakarta-annotation-api 1.3.4

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPool.java
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ExceptionsAttribute.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/URLClassPath.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java

* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformFieldAccess.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DuplicateMemberException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformWriteField.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java
*
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
* /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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Found in path(s):
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
*
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ByteMemberValue.java

* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValueVisitor.java
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/LongMemberValue.java

1.181 jakarta-annotation-api 1.3.5

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

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1.183 x-text 0.3.3

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1.184 zap 1.15.0

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1.185 commons-logging 1.1.3

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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
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 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
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*
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jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
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*
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Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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javaee-api (7.0)

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1.193 jakarta-ws-rs-api 2.1.5

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Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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1.204 hk2-utils 2.6.1

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1.205 hk2-api 2.6.1

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1.206 resourcelocator 1.0.3

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1.209 asm 3.2

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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/Processor.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/Remapper.java
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1. Seti UI - A subtle dark colored UI theme for Atom. (https://github.com/jesseweed/seti-ui)

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1.216 man-pages 5.05-1

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```
#!/bin/sh
#
# find_dot_no_parens.sh
#
# Look for function names after /^.[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found.  The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
```

```
#    cd man-pages-x.yy
#    sh find_dots_no_parens.sh . man?/*.? > matches.log
#
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1.223 xpp 1.1.3.3

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1.224 zstd 1.4.4+dfsg-3ubuntu0.1

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*/

/* checkTag : validation tool for libzstd
* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
*/

1.225 libtasn 4.16.0-2

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1.228 pkg-sftp 1.12.0

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1.229 lann-ps 0.0.0-20150810152359-62de8c46ede0

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1.230 ubuntu-keyring 2020.02.11.4

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1.231 tablewriter 0.0.5

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1.232 commons-lang3 3.12.0

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1.233 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba

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1.234 tacacs-plus 2.6

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1.235 python-pam 1.8.4

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1.236 tenacity 7.0.0

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1.237 contextlib2 0.6.0

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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.

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2.6.4	2.6.3	2009	PSF	yes
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3.0	2.6	2008	PSF	yes
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3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
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1.238 msgpack 1.0.2

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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
 /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
 /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
No license file was found, but licenses were detected in source scan.

('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
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executable.

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
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A grammar to describe tree matching patterns.
Not shown here:
- 'TOKEN' stands for any token (leaf node)
- 'any' stands for any node (leaf or interior)
With 'any' we can still specify the sub-structure.

The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] (STRING [Repeater]
            | NAME [Details] [Repeater]
            | '(' Alternatives ')' [Repeater]
            | '[' Alternatives ']'
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt
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***/

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_exec.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.

file.write('License: %s\n' % self.get_license())

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
No license file was found, but licenses were detected in source scan.

version.

Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
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Found in path(s):
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

1.242 markupsafe 2.0.1

1.242.1 Available under license :

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Found in path(s):
* /sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/LICENSE.rst
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Found in path(s):
* /sailfishos-mirror-markupsafe-2-0-1-0-g7666dff-1-tar-gz/sailfishos-mirror-markupsafe-dfb5bc1/setup.cfg

1.243 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

1.243.1 Available under license :

/* nettle-internal.c

Things that are used only by the testsuite and benchmark, and
not included in the library.

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*/
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Nettle
Upstream-Contact: Niels Mller <nisse@lysator.liu.se>
Source: http://www.lysator.liu.se/~nisse/nettle/
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.
A list of the supported algorithms, their origins and licenses (from
the manual):
.
AES
   The implementation of the AES cipher (also known as rijndael) is
   written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and
   Niels Mller, Sparc assembler by Niels Mller. Released under the
   LGPL.
.
ARCFOUR
   The implementation of the ARCFOUR (also
 known as RC4) cipher is
   written by Niels Mller. Released under the LGPL.
.
ARCTWO
   The implementation of the ARCTWO (also known as RC2) cipher is
   written by Nikos Mavroyanopoulos and modified by Werner Koch and
   Simon Josefsson. Released under the LGPL.
.
BLOWFISH
   The implementation of the BLOWFISH cipher is written by Werner
   Koch, copyright owned by the Free Software Foundation. Also hacked
   by Simon Josefsson and Niels Mller. Released under the LGPL.
.
CAMELLIA
   The C implementation is by Nippon Telegraph and Telephone
   Corporation (NTT), heavily modified by Niels Mller. Assembler for
   x86 and x86_64 by Niels Mller. Released under the LGPL.
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1.247 python-requests 2.26.0

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1.248 ecj 4.20

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 Also
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Written by: Philip Hazel
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[Misc
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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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[edoc, syntax_tools]

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linked without the Library, or if the work is itself a library. 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
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1.256 distlib 0.3.3

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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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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.272 liggitt-tabwriter 0.0.0-20181228230101-89fcab3d43de

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1.274 builder 0.0.0-20180802200727-47ae307949d0

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1.275 go-difflib 1.0.0

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1.276 properties 1.8.5

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1.277 soheilhy-cmux 0.1.5

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1.278 x-net 0.0.0-20210614182718-04defd469f4e

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1.279 klauspost-compress 1.12.2

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1.280 jcmturner-rpc 2.0.3

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1.285 viper 1.8.1

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1.292 x-crypto 0.0.0-20210616213533-5ff15b29337e

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1.293 blackfriday 2.0.1

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1.294 grpc-ecosystem-go-grpc-middleware 1.3.0

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1.295 zap 1.17.0

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1.296 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.297 sanitized-anchor-name 1.0.0

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1.298 zap 1.19.0

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1.299 prometheus-common 0.26.0

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1.301 spf13-pflag 1.0.5

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1.302 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.303 google-go-cmp 0.5.4

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1.305 grpc-ecosystem-go-grpc-middleware 1.2.2

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1.307 evanphx-json-patch 4.9.0+incompatible

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1.311 aec 1.0.0

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1.314 docker-go-metrics 0.0.1

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1.319 gopsutil 3.21.4+incompatible

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1.320 go-asn1-ber-asn1-ber 1.5.1

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1.321 go-test-deep 1.0.7

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1.323 k-sone-critbitgo 1.3.1-0.20191024122315-48c9e1530131

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1.324 etcd 3.3.15+incompatible

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procfs provides functions to retrieve system, kernel and process
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Protocol Buffers for Go with Gadgets

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

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1.325 go-errors-errors 1.2.0

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1.326 gopkg-in/ldap 2.5.1

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1.327 flag 1.7.4-pre

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1.328 golang-glog 0.0.0-20210429001901-424d2337a529

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1.329 gopkg.in-asn1-ber 1.0.0-20181015200546-f715ec2f112d

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1.330 go-errors-errors 1.0.2

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1.331 go-asn1-ber-asn1-ber 1.5.3

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1.332 pkg-sftp 1.13.0

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1.333 go.uber.org/atomi 1.5.0

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1.334 lithammer-dedent 1.1.0

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1.335 fiorix-go-diameter 3.0.2+incompatible

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#
git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
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1.336 ishidawataru-sctp 0.0.0-20210226210310-f2269e66cdee

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1.337 grpc-ecosystem-go-grpc-middleware 1.0.1-0.20190118093823-f849b5445de4

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1.339 go-ldap-ldap 3.3.0

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1.340 netlink 0.0.0-20170802012344-a95659537721

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1.341 x-net 0.0.0-20210119194325-5f4716e94777

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1.342 trylock 0.0.0-20191027065348-ff7e133a5c54

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1.343 eapache-channels 1.1.0

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1.344 monochromegane-go-gitignore 0.0.0-20200626010858-205db1a8cc00

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1.345 moby-spdystream 0.2.0

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1.346 gopkg.in-yaml 3.0.0-20210107192922-496545a6307b

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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

Found in path(s):
* /clockwork-0-2-2-1-gem/data-tar-gz/README.md

1.349 go-uber-org-multierr 1.4.0

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1.362 mitchellh-mapstructure 1.4.1

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1.364 go-systemd 0.0.0-20190321100706-95778dfbb74e

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1.366 gopkg.in-yaml 2.3.0

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1.370 tdb 1.45.5

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1.371 grpc-websocket-proxy 0.0.0-20200427203606-3cfed13b9966

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1.373 trylock 0.0.0-20160524210250-5d1441de6705

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1.374 roaring 0.5.5

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1.378 go-unsnap-stream 0.0.0-20210130063903-47dfef350d96

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1.380 yerden-go-util 1.1.3

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1.381 go-farm 0.0.0-20200201041132-a6ae2369ad13

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1.382 k-sone-critbitgo 1.4.0

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1.383 cheggaaa-pb 1.0.28

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1.384 grpc-websocket-proxy 0.0.0-20201229170055-e5319fda7802

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1.386 abbot-go-http-auth 0.4.0

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1.387 prometheus-procfs 0.7.2

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metrics from the pseudo-filesystem proc.

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1.388 smartystreets-goconvey 1.6.4

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1.389 json-iterator-go 1.1.12

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1.390 modern-go-reflect2 1.0.2

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1.391 pkg-sftp 1.13.4

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1.393 pyvmomi 7.0.3

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1.394 numcpus 0.2.3

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1.395 go-sysconf 0.3.7

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1.396 gls 4.20.0+incompatible

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//

/**
* This is bison grammar and productions for parsing all versions of the
* GLSL shading languages.
*/
%{

```
/* Based on:
ANSI C Yacc grammar

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a
matching Lex specification) for
 the April 30, 1985 draft version of the
ANSI C standard.  Tom Stockfisch reposted it to net.sources in 1987; that
original, as mentioned in the answer to question 17.25 of the comp.lang.c
FAQ, can be ftp'ed from ftp.uu.net, file usenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as
possible; please let me know if you discover discrepancies.

Jutta Degener, 1995
*/

#include "SymbolTable.h"
#include "ParseHelper.h"
#include "../Public/ShaderLang.h"
#include "attribute.h"

using namespace glslang;

%}

%define parse.error verbose

%union {
  struct {
      glslang::TSourceLoc loc;
      union {
          glslang::TString *string;
          int i;
          unsigned int u;
          long long i64;
          unsigned long long u64;
          bool b;
          double d;
      };
      glslang::TSymbol* symbol;
  } lex;
  struct {
      glslang::TSourceLoc loc;
      glslang::TOperator op;
      union
 {
          TIntermNode* intermNode;
          glslang::TIntermNodePair nodePair;
```

```
            glslang::TIntermTyped* intermTypedNode;
            glslang::TAttributes* attributes;
        };
        union {
            glslang::TPublicType type;
            glslang::TFunction* function;
            glslang::TParameter param;
            glslang::TTypeLoc typeLine;
            glslang::TTypeList* typeList;
            glslang::TArraySizes* arraySizes;
            glslang::TIdentifierList* identifierList;
        };
    } interm;
}

%{

/* windows only pragma */
#ifdef _MSC_VER
    #pragma warning(disable : 4065)
    #pragma warning(disable : 4127)
    #pragma warning(disable : 4244)
#endif

#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)

extern int yylex(YYSTYPE*, TParseContext&);

%}

%parse-param {glslang::TParseContext* pParseContext}
%lex-param {parseContext}
%pure-parser  // enable thread safety
%expect 1     // One shift reduce
 conflict because of if | else

%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL INT UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T
UINT8_T
%token <lex> BREAK CONTINUE DO ELSE FOR IF DISCARD RETURN SWITCH CASE DEFAULT
SUBROUTINE
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
%token <lex> UVEC2 UVEC3 UVEC4
%token <lex> I64VEC2 I64VEC3 I64VEC4
%token <lex> U64VEC2 U64VEC3 U64VEC4
```

%token <lex> I32VEC2 I32VEC3 I32VEC4
%token <lex> U32VEC2 U32VEC3 U32VEC4
%token <lex> I16VEC2 I16VEC3 I16VEC4
%token <lex> U16VEC2 U16VEC3 U16VEC4
%token <lex> I8VEC2 I8VEC3 I8VEC4
%token <lex> U8VEC2 U8VEC3 U8VEC4
%token <lex> VEC2 VEC3 VEC4
%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY
%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4
%token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4
%token <lex>
F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4
%token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4
%token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT __EXPLICITINTERPAMD

%token <lex> MAT2X2 MAT2X3 MAT2X4
%token <lex> MAT3X2 MAT3X3 MAT3X4
%token <lex> MAT4X2 MAT4X3 MAT4X4
%token <lex> DMAT2X2 DMAT2X3 DMAT2X4
%token <lex> DMAT3X2 DMAT3X3 DMAT3X4
%token <lex> DMAT4X2 DMAT4X3 DMAT4X4
%token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4
%token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4
%token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4
%token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4
%token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4
%token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4
%token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4
%token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4
%token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4
%token <lex> ATOMIC_UINT

// combined image/sampler
%token <lex> SAMPLER1D SAMPLER2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW
SAMPLER2DSHADOW
%token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY
SAMPLER1DARRAYSHADOW
%token
<lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE
%token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D
%token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY
%token <lex> SAMPLER2DRECT SAMPLER2DRECTSHADOW ISAMPLER2DRECT USAMPLER2DRECT
%token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER
%token <lex> SAMPLERCUBEARRAY SAMPLERCUBEARRAYSHADOW
%token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY
%token <lex> SAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS

```
%token <lex> SAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY
%token <lex> SAMPLEREXTERNALOES

%token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT
F16SAMPLERCUBE
%token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY
%token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY
%token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW
F16SAMPLER2DARRAYSHADOW
%token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW
F16SAMPLERCUBEARRAYSHADOW

//
 pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY UTEXTURE1D UTEXTURE2D UTEXTURE3D
%token <lex> UTEXTURECUBE UTEXTURE1DARRAY UTEXTURE2DARRAY
%token <lex> TEXTURE2DRECT ITEXTURE2DRECT UTEXTURE2DRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEXTUREBUFFER
%token <lex> TEXTURECUBEARRAY ITEXTURECUBEARRAY UTEXTURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTEXTURE2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEXTURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT
F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY

// input attachments
%token <lex> SUBPASSINPUT SUBPASSINPUTMS ISUBPASSINPUT ISUBPASSINPUTMS
USUBPASSINPUT USUBPASSINPUTMS
%token
 <lex> F16SUBPASSINPUT F16SUBPASSINPUTMS

%token <lex> IMAGE1D IIMAGE1D UIMAGE1D IMAGE2D IIMAGE2D
%token <lex> UIMAGE2D IMAGE3D IIMAGE3D UIMAGE3D
%token <lex> IMAGE2DRECT IIMAGE2DRECT UIMAGE2DRECT
%token <lex> IMAGECUBE IIMAGECUBE UIMAGECUBE
%token <lex> IMAGEBUFFER IIMAGEBUFFER UIMAGEBUFFER
%token <lex> IMAGE1DARRAY IIMAGE1DARRAY UIMAGE1DARRAY
%token <lex> IMAGE2DARRAY IIMAGE2DARRAY UIMAGE2DARRAY
%token <lex> IMAGECUBEARRAY IIMAGECUBEARRAY UIMAGECUBEARRAY
%token <lex> IMAGE2DMS IIMAGE2DMS UIMAGE2DMS
```

%token <lex> IMAGE2DMSARRAY IIMAGE2DMSARRAY UIMAGE2DMSARRAY

%token <lex> F16IMAGE1D F16IMAGE2D F16IMAGE3D F16IMAGE2DRECT
%token <lex> F16IMAGECUBE F16IMAGE1DARRAY F16IMAGE2DARRAY F16IMAGECUBEARRAY
%token <lex> F16IMAGEBUFFER F16IMAGE2DMS F16IMAGE2DMSARRAY

%token <lex> STRUCT VOID WHILE

%token <lex> IDENTIFIER TYPE_NAME
%token <lex> FLOATCONSTANT DOUBLECONSTANT INT16CONSTANT UINT16CONSTANT INT32CONSTANT UINT32CONSTANT INTCONSTANT UINTCONSTANT INT64CONSTANT UINT64CONSTANT
BOOLCONSTANT FLOAT16CONSTANT
%token <lex> LEFT_OP RIGHT_OP
%token <lex> INC_OP DEC_OP LE_OP GE_OP EQ_OP NE_OP
%token <lex> AND_OP OR_OP XOR_OP MUL_ASSIGN DIV_ASSIGN ADD_ASSIGN
%token <lex> MOD_ASSIGN LEFT_ASSIGN RIGHT_ASSIGN AND_ASSIGN XOR_ASSIGN OR_ASSIGN
%token <lex> SUB_ASSIGN

%token <lex> LEFT_PAREN RIGHT_PAREN LEFT_BRACKET RIGHT_BRACKET LEFT_BRACE RIGHT_BRACE DOT
%token <lex> COMMA COLON EQUAL SEMICOLON BANG DASH TILDE PLUS STAR SLASH PERCENT
%token <lex> LEFT_ANGLE RIGHT_ANGLE VERTICAL_BAR CARET AMPERSAND QUESTION

%token <lex> INVARIANT PRECISE
%token <lex> HIGH_PRECISION MEDIUM_PRECISION LOW_PRECISION PRECISION

%token <lex> PACKED RESOURCE SUPERP

%type <interm> assignment_operator unary_operator
%type <interm.intermTypedNode> variable_identifier primary_expression postfix_expression
%type <interm.intermTypedNode> expression integer_expression assignment_expression
%type <interm.intermTypedNode> unary_expression multiplicative_expression additive_expression
%type <interm.intermTypedNode>
relational_expression equality_expression
%type <interm.intermTypedNode> conditional_expression constant_expression
%type <interm.intermTypedNode> logical_or_expression logical_xor_expression logical_and_expression
%type <interm.intermTypedNode> shift_expression and_expression exclusive_or_expression inclusive_or_expression
%type <interm.intermTypedNode> function_call initializer initializer_list condition conditionopt

%type <interm.intermNode> translation_unit function_definition
%type <interm.intermNode> statement simple_statement
%type <interm.intermNode> statement_list switch_statement_list compound_statement
%type <interm.intermNode> declaration_statement selection_statement selection_statement_nonattributed expression_statement
%type <interm.intermNode> switch_statement switch_statement_nonattributed case_label
%type <interm.intermNode> declaration external_declaration

```
%type <interm.intermNode> for_init_statement compound_statement_no_new_scope
%type <interm.nodePair>
 selection_rest_statement for_rest_statement
%type <interm.intermNode> iteration_statement iteration_statement_nonattributed jump_statement
statement_no_new_scope statement_scoped
%type <interm> single_declaration init_declarator_list

%type <interm> parameter_declaration parameter_declarator parameter_type_specifier

%type <interm> array_specifier
%type <interm.type> precise_qualifier invariant_qualifier interpolation_qualifier storage_qualifier
precision_qualifier
%type <interm.type> layout_qualifier layout_qualifier_id_list layout_qualifier_id

%type <interm.type> type_qualifier fully_specified_type type_specifier
%type <interm.type> single_type_qualifier
%type <interm.type> type_specifier_nonarray
%type <interm.type> struct_specifier
%type <interm.typeLine> struct_declarator
%type <interm.typeList> struct_declarator_list struct_declaration struct_declaration_list type_name_list
%type <interm> block_structure
%type <interm.function> function_header function_declarator
%type <interm.function>
 function_header_with_parameters
%type <interm> function_call_header_with_parameters function_call_header_no_parameters function_call_generic
function_prototype
%type <interm> function_call_or_method function_identifier function_call_header

%type <interm.identifierList> identifier_list

%type <interm.attributes> attribute attribute_list single_attribute

%start translation_unit
%%

variable_identifier
  : IDENTIFIER {
      $$ = parseContext.handleVariable($1.loc, $1.symbol, $1.string);
  }
  ;

primary_expression
  : variable_identifier {
      $$ = $1;
  }
  | INT32CONSTANT {
      parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
      $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
```

```
  }
  | UINT32CONSTANT {
      parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
      $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
  }
  | INTCONSTANT {
      $$ = parseContext.intermediate.addConstantUnion($1.i,
$1.loc, true);
  }
  | UINTCONSTANT {
      parseContext.fullIntegerCheck($1.loc, "unsigned literal");
      $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
  }
  | INT64CONSTANT {
      parseContext.int64Check($1.loc, "64-bit integer literal");
      $$ = parseContext.intermediate.addConstantUnion($1.i64, $1.loc, true);
  }
  | UINT64CONSTANT {
      parseContext.int64Check($1.loc, "64-bit unsigned integer literal");
      $$ = parseContext.intermediate.addConstantUnion($1.u64, $1.loc, true);
  }
  | INT16CONSTANT {
      parseContext.explicitInt16Check($1.loc, "16-bit integer literal");
      $$ = parseContext.intermediate.addConstantUnion((short)$1.i, $1.loc, true);
  }
  | UINT16CONSTANT {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer literal");
      $$ = parseContext.intermediate.addConstantUnion((unsigned short)$1.u, $1.loc, true);
  }
  | FLOATCONSTANT {
       $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat, $1.loc, true);
  }
  | DOUBLECONSTANT {
      parseContext.doubleCheck($1.loc, "double literal");
      $$ = parseContext.intermediate.addConstantUnion($1.d, EbtDouble, $1.loc, true);
  }
  | FLOAT16CONSTANT {
      parseContext.float16Check($1.loc, "half float literal");
      $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat16, $1.loc, true);
  }
  | BOOLCONSTANT {
      $$ = parseContext.intermediate.addConstantUnion($1.b, $1.loc, true);
  }
  | LEFT_PAREN expression RIGHT_PAREN {
      $$ = $2;
      if ($$->getAsConstantUnion())
          $$->getAsConstantUnion()->setExpression();
  }
```

```
  ;

postfix_expression
  : primary_expression {
      $$ = $1;
  }
  | postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET {
      $$ = parseContext.handleBracketDereference($2.loc, $1, $3);
  }
  | function_call {
      $$ = $1;
  }
  | postfix_expression
 DOT IDENTIFIER {
      $$ = parseContext.handleDotDereference($3.loc, $1, *$3.string);
  }
  | postfix_expression INC_OP {
      parseContext.variableCheck($1);
      parseContext.lValueErrorCheck($2.loc, "++", $1);
      $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);
  }
  | postfix_expression DEC_OP {
      parseContext.variableCheck($1);
      parseContext.lValueErrorCheck($2.loc, "--", $1);
      $$ = parseContext.handleUnaryMath($2.loc, "--", EOpPostDecrement, $1);
  }
  ;

integer_expression
  : expression {
      parseContext.integerCheck($1, "[]");
      $$ = $1;
  }
  ;

function_call
  : function_call_or_method {
      $$ = parseContext.handleFunctionCall($1.loc, $1.function, $1.intermNode);
      delete $1.function;
  }
  ;

function_call_or_method
  : function_call_generic {
      $$ = $1;
  }
  ;
```

```
function_call_generic
  : function_call_header_with_parameters RIGHT_PAREN {
      $$ =
 $1;
      $$.loc = $2.loc;
  }
  | function_call_header_no_parameters RIGHT_PAREN {
      $$ = $1;
      $$.loc = $2.loc;
  }
  ;

function_call_header_no_parameters
  : function_call_header VOID {
      $$ = $1;
  }
  | function_call_header {
      $$ = $1;
  }
  ;

function_call_header_with_parameters
  : function_call_header assignment_expression {
      TParameter param = { 0, new TType };
      param.type->shallowCopy($2->getType());
      $1.function->addParameter(param);
      $$.function = $1.function;
      $$.intermNode = $2;
  }
  | function_call_header_with_parameters COMMA assignment_expression {
      TParameter param = { 0, new TType };
      param.type->shallowCopy($3->getType());
      $1.function->addParameter(param);
      $$.function = $1.function;
      $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode, $3, $2.loc);
  }
  ;

function_call_header
  : function_identifier LEFT_PAREN {

    $$ = $1;
  }
  ;

// Grammar Note:  Constructors look like functions, but are recognized as types.

function_identifier
```

```
  : type_specifier {
      // Constructor
      $$.intermNode = 0;
      $$.function = parseContext.handleConstructorCall($1.loc, $1);
  }
  | postfix_expression {
      //
      // Should be a method or subroutine call, but we haven't recognized the arguments yet.
      //
      $$.function = 0;
      $$.intermNode = 0;

      TIntermMethod* method = $1->getAsMethodNode();
      if (method) {
          $$.function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
          $$.intermNode = method->getObject();
      } else {
          TIntermSymbol* symbol = $1->getAsSymbolNode();
          if (symbol) {
              parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
              TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
              $$.function
 = function;
          } else
              parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", "", "");
      }

      if ($$.function == 0) {
          // error recover
          TString empty("");
          $$.function = new TFunction(&empty, TType(EbtVoid), EOpNull);
      }
  }
  ;

unary_expression
  : postfix_expression {
      parseContext.variableCheck($1);
      $$ = $1;
      if (TIntermMethod* method = $1->getAsMethodNode())
          parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), "");
  }
  | INC_OP unary_expression {
      parseContext.lValueErrorCheck($1.loc, "++", $2);
      $$ = parseContext.handleUnaryMath($1.loc, "++", EOpPreIncrement, $2);
  }
  | DEC_OP unary_expression {
      parseContext.lValueErrorCheck($1.loc, "--", $2);
```

```
        $$ = parseContext.handleUnaryMath($1.loc, "--", EOpPreDecrement, $2);
    }
    | unary_operator unary_expression
    {
        if ($1.op != EOpNull) {
            char errorOp[2] = {0, 0};
            switch($1.op) {
            case EOpNegative:   errorOp[0] = '-'; break;
            case EOpLogicalNot: errorOp[0] = '!'; break;
            case EOpBitwiseNot: errorOp[0] = '~'; break;
            default: break; // some compilers want this
            }
            $$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
        } else {
            $$ = $2;
            if ($$->getAsConstantUnion())
                $$->getAsConstantUnion()->setExpression();
        }
    }
    ;
// Grammar Note:  No traditional style type casts.

unary_operator
    : PLUS  { $$.loc = $1.loc; $$.op = EOpNull; }
    | DASH  { $$.loc = $1.loc; $$.op = EOpNegative; }
    | BANG  { $$.loc = $1.loc; $$.op = EOpLogicalNot; }
    | TILDE { $$.loc = $1.loc; $$.op = EOpBitwiseNot;
              parseContext.fullIntegerCheck($1.loc, "bitwise not"); }
    ;
// Grammar Note:  No '*' or '&' unary ops.  Pointers are not
 supported.

multiplicative_expression
    : unary_expression { $$ = $1; }
    | multiplicative_expression STAR unary_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "*", EOpMul, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | multiplicative_expression SLASH unary_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | multiplicative_expression PERCENT unary_expression {
        parseContext.fullIntegerCheck($2.loc, "%");
        $$ = parseContext.handleBinaryMath($2.loc, "%", EOpMod, $1, $3);
        if ($$ == 0)
```

```
        $$ = $1;
    }
    ;

additive_expression
    : multiplicative_expression { $$ = $1; }
    | additive_expression PLUS multiplicative_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | additive_expression DASH multiplicative_expression {
        $$ = parseContext.handleBinaryMath($2.loc,
 "-", EOpSub, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

shift_expression
    : additive_expression { $$ = $1; }
    | shift_expression LEFT_OP additive_expression {
        parseContext.fullIntegerCheck($2.loc, "bit shift left");
        $$ = parseContext.handleBinaryMath($2.loc, "<<", EOpLeftShift, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | shift_expression RIGHT_OP additive_expression {
        parseContext.fullIntegerCheck($2.loc, "bit shift right");
        $$ = parseContext.handleBinaryMath($2.loc, ">>", EOpRightShift, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

relational_expression
    : shift_expression { $$ = $1; }
    | relational_expression LEFT_ANGLE shift_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "<", EOpLessThan, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    | relational_expression RIGHT_ANGLE shift_expression
    {
        $$ = parseContext.handleBinaryMath($2.loc, ">", EOpGreaterThan, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
```

```
  | relational_expression LE_OP shift_expression  {
      $$ = parseContext.handleBinaryMath($2.loc, "<=", EOpLessThanEqual, $1, $3);
      if ($$ == 0)
          $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  | relational_expression GE_OP shift_expression  {
      $$ = parseContext.handleBinaryMath($2.loc, ">=", EOpGreaterThanEqual, $1, $3);
      if ($$ == 0)
          $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  ;

equality_expression
  : relational_expression { $$ = $1; }
  | equality_expression EQ_OP relational_expression  {
      parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
      parseContext.opaqueCheck($2.loc, $1->getType(), "==");
      parseContext.specializationCheck($2.loc,
 $1->getType(), "==");
      $$ = parseContext.handleBinaryMath($2.loc, "==", EOpEqual, $1, $3);
      if ($$ == 0)
          $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  | equality_expression NE_OP relational_expression {
      parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
      parseContext.opaqueCheck($2.loc, $1->getType(), "!=");
      parseContext.specializationCheck($2.loc, $1->getType(), "!=");
      $$ = parseContext.handleBinaryMath($2.loc, "!=", EOpNotEqual, $1, $3);
      if ($$ == 0)
          $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  ;

and_expression
  : equality_expression { $$ = $1; }
  | and_expression AMPERSAND equality_expression {
      parseContext.fullIntegerCheck($2.loc, "bitwise and");
      $$ = parseContext.handleBinaryMath($2.loc, "&", EOpAnd, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  ;

exclusive_or_expression
  : and_expression
 { $$ = $1; }
  | exclusive_or_expression CARET and_expression {
      parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
```

```
        $$ = parseContext.handleBinaryMath($2.loc, "^", EOpExclusiveOr, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

inclusive_or_expression
    : exclusive_or_expression { $$ = $1; }
    | inclusive_or_expression VERTICAL_BAR exclusive_or_expression {
        parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");
        $$ = parseContext.handleBinaryMath($2.loc, "|", EOpInclusiveOr, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

logical_and_expression
    : inclusive_or_expression { $$ = $1; }
    | logical_and_expression AND_OP inclusive_or_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "&&", EOpLogicalAnd, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    ;

logical_xor_expression
    : logical_and_expression { $$
 = $1; }
    | logical_xor_expression XOR_OP logical_and_expression  {
        $$ = parseContext.handleBinaryMath($2.loc, "^^", EOpLogicalXor, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    ;

logical_or_expression
    : logical_xor_expression { $$ = $1; }
    | logical_or_expression OR_OP logical_xor_expression  {
        $$ = parseContext.handleBinaryMath($2.loc, "||", EOpLogicalOr, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    ;

conditional_expression
    : logical_or_expression { $$ = $1; }
    | logical_or_expression QUESTION {
        ++parseContext.controlFlowNestingLevel;
```

```
  }
    expression COLON assignment_expression {
      --parseContext.controlFlowNestingLevel;
      parseContext.boolCheck($2.loc, $1);
      parseContext.rValueErrorCheck($2.loc, "?", $1);
      parseContext.rValueErrorCheck($5.loc, ":", $4);
      parseContext.rValueErrorCheck($5.loc,
":", $6);
      $$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
      if ($$ == 0) {
          parseContext.binaryOpError($2.loc, ":", $4->getCompleteString(), $6->getCompleteString());
          $$ = $6;
      }
  }
  ;

assignment_expression
  : conditional_expression { $$ = $1; }
  | unary_expression assignment_operator assignment_expression {
      parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
      parseContext.opaqueCheck($2.loc, $1->getType(), "=");
      parseContext.specializationCheck($2.loc, $1->getType(), "=");
      parseContext.lValueErrorCheck($2.loc, "assign", $1);
      parseContext.rValueErrorCheck($2.loc, "assign", $3);
      $$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
      if ($$ == 0) {
          parseContext.assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
          $$ = $1;
      }
  }
  ;

assignment_operator
   : EQUAL {
      $$.loc = $1.loc;
      $$.op = EOpAssign;
  }
  | MUL_ASSIGN {
      $$.loc = $1.loc;
      $$.op = EOpMulAssign;
  }
  | DIV_ASSIGN {
      $$.loc = $1.loc;
      $$.op = EOpDivAssign;
  }
  | MOD_ASSIGN {
      parseContext.fullIntegerCheck($1.loc, "%=");
      $$.loc = $1.loc;
```

```
        $$.op = EOpModAssign;
    }
    | ADD_ASSIGN {
        $$.loc = $1.loc;
        $$.op = EOpAddAssign;
    }
    | SUB_ASSIGN {
        $$.loc = $1.loc;
        $$.op = EOpSubAssign;
    }
    | LEFT_ASSIGN {
        parseContext.fullIntegerCheck($1.loc, "bit-shift left assign");
        $$.loc = $1.loc; $$.op = EOpLeftShiftAssign;
    }
    | RIGHT_ASSIGN {
        parseContext.fullIntegerCheck($1.loc, "bit-shift right assign");
        $$.loc = $1.loc; $$.op = EOpRightShiftAssign;
    }
    | AND_ASSIGN {
        parseContext.fullIntegerCheck($1.loc, "bitwise-and assign");
        $$.loc = $1.loc; $$.op = EOpAndAssign;
    }
    | XOR_ASSIGN
   {
        parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
        $$.loc = $1.loc; $$.op = EOpExclusiveOrAssign;
    }
    | OR_ASSIGN {
        parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
        $$.loc = $1.loc; $$.op = EOpInclusiveOrAssign;
    }
    ;

expression
    : assignment_expression {
        $$ = $1;
    }
    | expression COMMA assignment_expression {
        parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
        $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
        if ($$ == 0) {
            parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
            $$ = $3;
        }
    }
    ;

constant_expression
```

```
  : conditional_expression {
      parseContext.constantValueCheck($1, "");
      $$ = $1;
  }
  ;

declaration
  : function_prototype SEMICOLON {
      parseContext.handleFunctionDeclarator($1.loc, *$1.function, true /* prototype */);
      $$ = 0;

  // TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
  }
  | init_declarator_list SEMICOLON {
      if ($1.intermNode && $1.intermNode->getAsAggregate())
          $1.intermNode->getAsAggregate()->setOperator(EOpSequence);
      $$ = $1.intermNode;
  }
  | PRECISION precision_qualifier type_specifier SEMICOLON {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "precision statement");

      // lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
      parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
      parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
      $$ = 0;
  }
  | block_structure SEMICOLON {
      parseContext.declareBlock($1.loc, *$1.typeList);
      $$ = 0;
  }
  | block_structure IDENTIFIER SEMICOLON {
      parseContext.declareBlock($1.loc, *$1.typeList, $2.string);
       $$ = 0;
  }
  | block_structure IDENTIFIER array_specifier SEMICOLON {
      parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);
      $$ = 0;
  }
  | type_qualifier SEMICOLON {
      parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
      parseContext.updateStandaloneQualifierDefaults($1.loc, $1);
      $$ = 0;
  }
  | type_qualifier IDENTIFIER SEMICOLON {
      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);
      $$ = 0;
  }
```

```
  | type_qualifier IDENTIFIER identifier_list SEMICOLON {
      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      $3->push_back($2.string);
      parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
      $$ = 0;
  }
  ;

block_structure
  : type_qualifier IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list
RIGHT_BRACE
 {
      --parseContext.structNestingLevel;
      parseContext.blockName = $2.string;
      parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      parseContext.currentBlockQualifier = $1.qualifier;
      $$.loc = $1.loc;
      $$.typeList = $5;
  }

identifier_list
  : COMMA IDENTIFIER {
      $$ = new TIdentifierList;
      $$->push_back($2.string);
  }
  | identifier_list COMMA IDENTIFIER {
      $$ = $1;
      $$->push_back($3.string);
  }
  ;

function_prototype
  : function_declarator RIGHT_PAREN  {
      $$.function = $1;
      $$.loc = $2.loc;
  }
  ;

function_declarator
  : function_header {
      $$ = $1;
  }
  | function_header_with_parameters {
      $$ = $1;
  }
  ;
```

```
function_header_with_parameters
  : function_header parameter_declaration {
      // Add the parameter
      $$ = $1;
      if ($2.param.type->getBasicType()
 != EbtVoid)
          $1->addParameter($2.param);
      else
          delete $2.param.type;
  }
  | function_header_with_parameters COMMA parameter_declaration {
      //
      // Only first parameter of one-parameter functions can be void
      // The check for named parameters not being void is done in parameter_declarator
      //
      if ($3.param.type->getBasicType() == EbtVoid) {
          //
          // This parameter > first is void
          //
          parseContext.error($2.loc, "cannot be an argument type except for '(void)'", "void", "");
          delete $3.param.type;
      } else {
          // Add the parameter
          $$ = $1;
          $1->addParameter($3.param);
      }
  }
  ;

function_header
  : fully_specified_type IDENTIFIER LEFT_PAREN {
      if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) {
          parseContext.error($2.loc, "no qualifiers allowed for function return",
                             GetStorageQualifierString($1.qualifier.storage), "");
      }
      if ($1.arraySizes)
          parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

      // Add the function as a prototype after parsing it (we do not support recursion)
      TFunction *function;
      TType type($1);

      // Potentially rename shader entry point function.  No-op most of the time.
      parseContext.renameShaderFunction($2.string);

      // Make the function
      function = new TFunction($2.string, type);
```

```
        $$ = function;
    }
    ;

parameter_declarator
    // Type + name
    : type_specifier IDENTIFIER {
        if ($1.arraySizes) {
            parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
        }
        if ($1.basicType ==
 EbtVoid) {
            parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
        }
        parseContext.reservedErrorCheck($2.loc, *$2.string);

        TParameter param = {$2.string, new TType($1)};
        $$.loc = $2.loc;
        $$.param = param;
    }
    | type_specifier IDENTIFIER array_specifier {
        if ($1.arraySizes) {
            parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
        }
        parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);

        parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
        parseContext.reservedErrorCheck($2.loc, *$2.string);

        TParameter param = { $2.string, new TType($1)};
        parseContext.arrayDimMerge(*param.type, $3.arraySizes);

        $$.loc = $2.loc;

       $$.param = param;
    }
    ;

parameter_declaration
    //
    // With name
    //
    : type_qualifier parameter_declarator {
        $$ = $2;
```

```
        if ($1.qualifier.precision != EpqNone)
            $$.param.type->getQualifier().precision = $1.qualifier.precision;
        parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());

        parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
        parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$.param.type);
        parseContext.paramCheckFix($1.loc, $1.qualifier, *$$.param.type);

    }
    | parameter_declarator {
        $$ = $1;

        parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
        parseContext.paramCheckFix($1.loc, EvqTemporary, *$$.param.type);
        parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());
    }
    //
    // Without name
    //
    | type_qualifier
   parameter_type_specifier {
        $$ = $2;
        if ($1.qualifier.precision != EpqNone)
            $$.param.type->getQualifier().precision = $1.qualifier.precision;
        parseContext.precisionQualifierCheck($1.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());

        parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
        parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$.param.type);
        parseContext.paramCheckFix($1.loc, $1.qualifier, *$$.param.type);
    }
    | parameter_type_specifier {
        $$ = $1;

        parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
        parseContext.paramCheckFix($1.loc, EvqTemporary, *$$.param.type);
        parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());
    }
    ;

parameter_type_specifier
    : type_specifier {
        TParameter param = { 0, new TType($1) };
        $$.param = param;
        if ($1.arraySizes)
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    ;
```

```
init_declarator_list
  : single_declaration {
      $$ = $1;
  }
  | init_declarator_list COMMA IDENTIFIER {
      $$ = $1;
      parseContext.declareVariable($3.loc, *$3.string, $1.type);
  }
  | init_declarator_list COMMA IDENTIFIER array_specifier {
      $$ = $1;
      parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
  }
  | init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {
      $$.type = $1.type;
      TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);
      $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
  }
  | init_declarator_list COMMA IDENTIFIER EQUAL initializer {
      $$.type = $1.type;
      TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);
      $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode,
 initNode, $4.loc);
  }
  ;

single_declaration
  : fully_specified_type {
      $$.type = $1;
      $$.intermNode = 0;
      parseContext.declareTypeDefaults($$.loc, $$.type);
  }
  | fully_specified_type IDENTIFIER {
      $$.type = $1;
      $$.intermNode = 0;
      parseContext.declareVariable($2.loc, *$2.string, $1);
  }
  | fully_specified_type IDENTIFIER array_specifier {
      $$.type = $1;
      $$.intermNode = 0;
      parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
  }
  | fully_specified_type IDENTIFIER array_specifier EQUAL initializer {
      $$.type = $1;
      TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);
      $$.intermNode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
  }
  | fully_specified_type IDENTIFIER EQUAL initializer {
      $$.type = $1;
```

```
        TIntermNode* initNode = parseContext.declareVariable($2.loc,
 *$2.string, $1, 0, $4);
        $$.intermNode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
    }

// Grammar Note:  No 'enum', or 'typedef'.

fully_specified_type
    : type_specifier {
        $$ = $1;

        parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
        if ($1.arraySizes) {
            parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        }

        parseContext.precisionQualifierCheck($$.loc, $$.basicType, $$.qualifier);
    }
    | type_qualifier type_specifier  {
        parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
        parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);

        if ($2.arraySizes) {
            parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($2.loc,
 EEsProfile, 300, 0, "arrayed type");
        }

        if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
            $2.arraySizes = 0;

        parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
        $2.shaderQualifiers.merge($1.shaderQualifiers);
        parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
        parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

        $$ = $2;

        if (! $$.qualifier.isInterpolation() &&
            ((parseContext.language == EShLangVertex   && $$.qualifier.storage == EvqVaryingOut) ||
             (parseContext.language == EShLangFragment && $$.qualifier.storage == EvqVaryingIn)))
            $$.qualifier.smooth = true;
    }
    ;

invariant_qualifier
    : INVARIANT {
```

```
        parseContext.globalCheck($1.loc, "invariant");
        parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant");
        $$.init($1.loc);
        $$.qualifier.invariant
 = true;
    }
    ;

interpolation_qualifier
    : SMOOTH {
        parseContext.globalCheck($1.loc, "smooth");
        parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "smooth");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "smooth");
        $$.init($1.loc);
        $$.qualifier.smooth = true;
    }
    | FLAT {
        parseContext.globalCheck($1.loc, "flat");
        parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "flat");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "flat");
        $$.init($1.loc);
        $$.qualifier.flat = true;
    }
    | NOPERSPECTIVE {
        parseContext.globalCheck($1.loc, "noperspective");
        parseContext.requireProfile($1.loc, ~EEsProfile, "noperspective");
        parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "noperspective");
        $$.init($1.loc);
        $$.qualifier.nopersp = true;
    }
    | __EXPLICITINTERPAMD {
#ifdef AMD_EXTENSIONS
        parseContext.globalCheck($1.loc,
 "__explicitInterpAMD");
        parseContext.profileRequires($1.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter,
"explicit interpolation");
        parseContext.profileRequires($1.loc, ECompatibilityProfile, 450,
E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
        $$.init($1.loc);
        $$.qualifier.explicitInterp = true;
#endif
    }
    ;

layout_qualifier
    : LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
        $$ = $3;
    }
```

```
  ;

layout_qualifier_id_list
  : layout_qualifier_id {
      $$ = $1;
  }
  | layout_qualifier_id_list COMMA layout_qualifier_id {
      $$ = $1;
      $$.shaderQualifiers.merge($3.shaderQualifiers);
      parseContext.mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
  }

layout_qualifier_id
  : IDENTIFIER {
      $$.init($1.loc);
      parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
  }
  | IDENTIFIER EQUAL constant_expression
 {
      $$.init($1.loc);
      parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
  }
  | SHARED { // because "shared" is both an identifier and a keyword
      $$.init($1.loc);
      TString strShared("shared");
      parseContext.setLayoutQualifier($1.loc, $$, strShared);
  }
  ;

precise_qualifier
  : PRECISE {
      parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5,
"precise");
      parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
      $$.init($1.loc);
      $$.qualifier.noContraction = true;
  }
  ;

type_qualifier
  : single_type_qualifier {
      $$ = $1;
  }
  | type_qualifier single_type_qualifier {
      $$ = $1;
      if ($$.basicType == EbtVoid)
          $$.basicType = $2.basicType;
```

```
        $$.shaderQualifiers.merge($2.shaderQualifiers);
        parseContext.mergeQualifiers($$.loc, $$.qualifier, $2.qualifier, false);
    }
    ;

single_type_qualifier
    : storage_qualifier {
        $$ = $1;
    }
    | layout_qualifier {
        $$ = $1;
    }
    | precision_qualifier {
        parseContext.checkPrecisionQualifier($1.loc, $1.qualifier.precision);
        $$ = $1;
    }
    | interpolation_qualifier {
        // allow inheritance of storage qualifier from block declaration
        $$ = $1;
    }
    | invariant_qualifier {
        // allow inheritance of storage qualifier from block declaration
        $$ = $1;
    }
    | precise_qualifier {
        // allow inheritance of storage qualifier from block declaration
        $$ = $1;
    }
    ;

storage_qualifier
    : CONST {
        $$.init($1.loc);
        $$.qualifier.storage = EvqConst;  // will later turn into EvqConstReadOnly, if the initializer is not constant
    }
    | ATTRIBUTE {
        parseContext.requireStage($1.loc, EShLangVertex, "attribute");
        parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "attribute");

        parseContext.checkDeprecated($1.loc, ENoProfile, 130, "attribute");
        parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "attribute");
        parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "attribute");

        parseContext.globalCheck($1.loc, "attribute");

        $$.init($1.loc);
        $$.qualifier.storage = EvqVaryingIn;
    }
```

```
    | VARYING {
        parseContext.checkDeprecated($1.loc, ENoProfile, 130, "varying");
        parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "varying");
        parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "varying");
        parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "varying");

        parseContext.globalCheck($1.loc, "varying");

        $$.init($1.loc);
        if (parseContext.language == EShLangVertex)
            $$.qualifier.storage = EvqVaryingOut;
        else
            $$.qualifier.storage = EvqVaryingIn;
    }
    | INOUT {
        parseContext.globalCheck($1.loc, "inout");
         $$.init($1.loc);
        $$.qualifier.storage = EvqInOut;
    }
    | IN {
        parseContext.globalCheck($1.loc, "in");
        $$.init($1.loc);
        // whether this is a parameter "in" or a pipeline "in" will get sorted out a bit later
        $$.qualifier.storage = EvqIn;
    }
    | OUT {
        parseContext.globalCheck($1.loc, "out");
        $$.init($1.loc);
        // whether this is a parameter "out" or a pipeline "out" will get sorted out a bit later
        $$.qualifier.storage = EvqOut;
    }
    | CENTROID {
        parseContext.profileRequires($1.loc, ENoProfile, 120, 0, "centroid");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "centroid");
        parseContext.globalCheck($1.loc, "centroid");
        $$.init($1.loc);
        $$.qualifier.centroid = true;
    }
    | PATCH {
        parseContext.globalCheck($1.loc, "patch");
        parseContext.requireStage($1.loc, (EShLanguageMask)(EShLangTessControlMask |
EShLangTessEvaluationMask), "patch");
         $$.init($1.loc);
        $$.qualifier.patch = true;
    }
    | SAMPLE {
        parseContext.globalCheck($1.loc, "sample");
        $$.init($1.loc);
```

```
        $$.qualifier.sample = true;
    }
    | UNIFORM {
        parseContext.globalCheck($1.loc, "uniform");
        $$.init($1.loc);
        $$.qualifier.storage = EvqUniform;
    }
    | BUFFER {
        parseContext.globalCheck($1.loc, "buffer");
        $$.init($1.loc);
        $$.qualifier.storage = EvqBuffer;
    }
    | SHARED {
        parseContext.globalCheck($1.loc, "shared");
        parseContext.profileRequires($1.loc, ECoreProfile | ECompatibilityProfile, 430, E_GL_ARB_compute_shader,
"shared");
        parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
        parseContext.requireStage($1.loc, EShLangCompute, "shared");
        $$.init($1.loc);
        $$.qualifier.storage = EvqShared;
    }
    | COHERENT {
        $$.init($1.loc);
        $$.qualifier.coherent = true;
    }
    | VOLATILE
   {
        $$.init($1.loc);
        $$.qualifier.volatil = true;
    }
    | RESTRICT {
        $$.init($1.loc);
        $$.qualifier.restrict = true;
    }
    | READONLY {
        $$.init($1.loc);
        $$.qualifier.readonly = true;
    }
    | WRITEONLY {
        $$.init($1.loc);
        $$.qualifier.writeonly = true;
    }
    | SUBROUTINE {
        parseContext.spvRemoved($1.loc, "subroutine");
        parseContext.globalCheck($1.loc, "subroutine");
        parseContext.unimplemented($1.loc, "subroutine");
        $$.init($1.loc);
    }
```

```
  | SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN {
      parseContext.spvRemoved($1.loc, "subroutine");
      parseContext.globalCheck($1.loc, "subroutine");
      parseContext.unimplemented($1.loc, "subroutine");
      $$.init($1.loc);
  }
  ;

type_name_list
  : IDENTIFIER {
      // TODO
  }
  | type_name_list COMMA IDENTIFIER {
      // TODO: 4.0 semantics: subroutines
      // 1) make sure each identifier is a type
 declared earlier with SUBROUTINE
      // 2) save all of the identifiers for future comparison with the declared function
  }
  ;

type_specifier
  : type_specifier_nonarray {
      $$ = $1;
      $$.qualifier.precision = parseContext.getDefaultPrecision($$);
  }
  | type_specifier_nonarray array_specifier {
      parseContext.arrayDimCheck($2.loc, $2.arraySizes, 0);
      $$ = $1;
      $$.qualifier.precision = parseContext.getDefaultPrecision($$);
      $$.arraySizes = $2.arraySizes;
  }
  ;

array_specifier
  : LEFT_BRACKET RIGHT_BRACKET {
      $$.loc = $1.loc;
      $$.arraySizes = new TArraySizes;
      $$.arraySizes->addInnerSize();
  }
  | LEFT_BRACKET conditional_expression RIGHT_BRACKET {
      $$.loc = $1.loc;
      $$.arraySizes = new TArraySizes;

      TArraySize size;
      parseContext.arraySizeCheck($2->getLoc(), $2, size);
      $$.arraySizes->addInnerSize(size);
  }
  | array_specifier LEFT_BRACKET RIGHT_BRACKET
```

```
 {
     $$ = $1;
     $$.arraySizes->addInnerSize();
   }
   | array_specifier LEFT_BRACKET conditional_expression RIGHT_BRACKET {
     $$ = $1;

     TArraySize size;
     parseContext.arraySizeCheck($3->getLoc(), $3, size);
     $$.arraySizes->addInnerSize(size);
   }
   ;

type_specifier_nonarray
   : VOID {
     $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtVoid;
   }
   | FLOAT {
     $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtFloat;
   }
   | DOUBLE {
     parseContext.doubleCheck($1.loc, "double");
     $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtDouble;
   }
   | FLOAT16_T {
     parseContext.float16Check($1.loc, "float16_t", parseContext.symbolTable.atBuiltInLevel());
     $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtFloat16;
   }
   | FLOAT32_T {
     parseContext.explicitFloat32Check($1.loc,
  "float32_t", parseContext.symbolTable.atBuiltInLevel());
     $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtFloat;
   }
   | FLOAT64_T {
     parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
     $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtDouble;
   }
   | INT {
     $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtInt;
   }
   | UINT {
```

```
      parseContext.fullIntegerCheck($1.loc, "unsigned integer");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
    }
    | INT8_T {
      parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt8;
    }
    | UINT8_T {
      parseContext.explicitInt8Check($1.loc,
  "8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint8;
    }
    | INT16_T {
      parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt16;
    }
    | UINT16_T {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer",
  parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
    }
    | INT32_T {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
    }
    | UINT32_T {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned
   integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
    }
    | INT64_T {
      parseContext.int64Check($1.loc, "64-bit integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt64;
    }
    | UINT64_T {
      parseContext.int64Check($1.loc, "64-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint64;
    }
    | BOOL {
```

```
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtBool;
 }
 | VEC2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setVector(2);
 }
 | VEC3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;

$$.setVector(3);
 }
 | VEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setVector(4);
 }
 | DVEC2 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setVector(2);
 }
 | DVEC3 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setVector(3);
 }
 | DVEC4 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setVector(4);
 }
 | F16VEC2 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
     $$.setVector(2);
 }
 | F16VEC3 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setVector(3);
```

```
  }
  | F16VEC4 {
      parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtFloat16;
      $$.setVector(4);
  }
  | F32VEC2 {
   parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtFloat;
   $$.setVector(2);
  }
  | F32VEC3 {
   parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType
= EbtFloat;
   $$.setVector(3);
  }
  | F32VEC4 {
   parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtFloat;
   $$.setVector(4);
  }
  | F64VEC2 {
   parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtDouble;
   $$.setVector(2);
  }
  | F64VEC3 {
   parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtDouble;
   $$.setVector(3);
  }
  | F64VEC4 {
   parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType
= EbtDouble;
   $$.setVector(4);
  }
  | BVEC2 {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtBool;
```

```
    $$.setVector(2);
  }
  | BVEC3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtBool;
    $$.setVector(3);
  }
  | BVEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtBool;
    $$.setVector(4);
  }
  | IVEC2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(2);
  }
  | IVEC3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(3);
  }
  | IVEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt;
    $$.setVector(4);
  }
  | I8VEC2 {
   parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt8;
   $$.setVector(2);
   }
  | I8VEC3 {
   parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt8;
   $$.setVector(3);
   }
  | I8VEC4 {
   parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt8;
   $$.setVector(4);
   }
  | I16VEC2 {
   parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
```

```
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt16;
    $$.setVector(2);
   }
  | I16VEC3 {
    parseContext.explicitInt16Check($1.loc, "16-bit
 signed integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt16;
    $$.setVector(3);
   }
  | I16VEC4 {
    parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtInt16;
    $$.setVector(4);
   }
  | I32VEC2 {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
      $$.setVector(2);
   }
  | I32VEC3 {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
      $$.setVector(3);
   }
  | I32VEC4
 {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
      $$.setVector(4);
   }
  | I64VEC2 {
      parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt64;
      $$.setVector(2);
   }
  | I64VEC3 {
      parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
```

```
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtInt64;
        $$.setVector(3);
    }
    | I64VEC4 {
        parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtInt64;

     $$.setVector(4);
    }
    | UVEC2 {
        parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint;
        $$.setVector(2);
    }
    | UVEC3 {
        parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint;
        $$.setVector(3);
    }
    | UVEC4 {
        parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint;
        $$.setVector(4);
    }
    | U8VEC2 {
        parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint8;
        $$.setVector(2);
    }
    | U8VEC3 {
        parseContext.explicitInt8Check($1.loc,
 "8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtInt8;
        $$.setVector(3);
    }
    | U8VEC4 {
        parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint8;
```

```
      $$.setVector(4);
    }
    | U16VEC2 {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
      $$.setVector(2);
    }
    | U16VEC3 {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
       $$.setVector(3);
    }
    | U16VEC4 {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
      $$.setVector(4);
    }
    | U32VEC2 {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
      $$.setVector(2);
    }
    | U32VEC3 {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
      $$.setVector(3);
    }
    | U32VEC4 {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());

      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
      $$.setVector(4);
    }
    | U64VEC2 {
      parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
    $$.basicType = EbtUint64;
    $$.setVector(2);
}
| U64VEC3 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
    $$.setVector(3);
}
| U64VEC4 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
    $$.setVector(4);
}
| MAT2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtFloat;
    $$.setMatrix(2, 2);
}
| MAT3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(3, 3);
}
| MAT4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(4, 4);
}
| MAT2X2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(2, 2);
}
| MAT2X3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(2, 3);
}
| MAT2X4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(2, 4);
}
| MAT3X2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
```

```
    $$.setMatrix(3, 2);
  }
  | MAT3X3 {
    $$.init($1.loc,
parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(3, 3);
  }
  | MAT3X4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(3, 4);
  }
  | MAT4X2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(4, 2);
  }
  | MAT4X3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(4, 3);
  }
  | MAT4X4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(4, 4);
  }
  | DMAT2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(2, 2);
  }
  | DMAT3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc,
parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 3);
  }
  | DMAT4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 4);
  }
  | DMAT2X2 {
```

```
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(2, 2);
  }
  | DMAT2X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(2, 3);
  }
  | DMAT2X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(2, 4);
  }
  | DMAT3X2 {
    parseContext.doubleCheck($1.loc,
"double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 2);
  }
  | DMAT3X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 3);
  }
  | DMAT3X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 4);
  }
  | DMAT4X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 2);
  }
  | DMAT4X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4,
```

```
3);
 }
 | DMAT4X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 4);
 }
 | F16MAT2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 2);
 }
 | F16MAT3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(3, 3);
 }
 | F16MAT4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(4, 4);
 }

 | F16MAT2X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 2);
 }
 | F16MAT2X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 3);
 }
 | F16MAT2X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 4);
 }
 | F16MAT3X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
    $$.basicType = EbtFloat16;
     $$.setMatrix(3, 2);
}
| F16MAT3X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(3, 3);
}
| F16MAT3X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(3, 4);
}
| F16MAT4X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(4, 2);
}
| F16MAT4X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtFloat16;
    $$.setMatrix(4, 3);
}
| F16MAT4X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(4, 4);
}
| F32MAT2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 2);
}
| F32MAT3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 3);
}
| F32MAT4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
  $$.basicType = EbtFloat;
 $$.setMatrix(4, 4);
 }
 | F32MAT2X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 2);
 }
 | F32MAT2X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 3);
 }
 | F32MAT2X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 4);
 }
 | F32MAT3X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc,
parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 2);
 }
 | F32MAT3X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 3);
 }
 | F32MAT3X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 4);
 }
 | F32MAT4X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(4, 2);
 }
 | F32MAT4X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
```

```
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(4, 3);
}
| F32MAT4X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(4, 4);
}
| F64MAT2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 2);
}
| F64MAT3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(3, 3);
}
| F64MAT4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(4, 4);
}
| F64MAT2X2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 2);
}
| F64MAT2X3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 3);
}
| F64MAT2X4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 4);
}
| F64MAT3X2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
```

```
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 2);
    }
    | F64MAT3X3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 3);
    }
    | F64MAT3X4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 4);
    }
    | F64MAT4X2 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 2);
    }
    | F64MAT4X3 {
    parseContext.explicitFloat64Check($1.loc, "float64_t
matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 3);
    }
    | F64MAT4X4 {
    parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 4);
    }
    | ATOMIC_UINT {
        parseContext.vulkanRemoved($1.loc, "atomic counter types");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtAtomicUint;
    }
    | SAMPLER1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, Esd1D);
    }
    | SAMPLER2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
```

```
    $$.sampler.set(EbtFloat, Esd2D);
}
| SAMPLER3D {

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd3D);
}
| SAMPLERCUBE {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, EsdCube);
}
| SAMPLER1DSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd1D, false, true);
}
| SAMPLER2DSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd2D, false, true);
}
| SAMPLERCUBESHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, EsdCube, false, true);
}
| SAMPLER1DARRAY {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
     $$.sampler.set(EbtFloat, Esd1D, true);
}
| SAMPLER2DARRAY {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd2D, true);
}
| SAMPLER1DARRAYSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd1D, true, true);
}
| SAMPLER2DARRAYSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd2D, true, true);
}
```

```
  | SAMPLERCUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat, EsdCube, true);
    }
  | SAMPLERCUBEARRAYSHADOW {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat, EsdCube, true, true);
    }
  | F16SAMPLER1D
 {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd1D);
#endif
    }
  | F16SAMPLER2D {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd2D);
#endif
    }
  | F16SAMPLER3D {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd3D);
#endif
    }
  | F16SAMPLERCUBE {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc,
 "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, EsdCube);
#endif
    }
  | F16SAMPLER1DSHADOW {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd1D, false, true);
#endif
    }
    | F16SAMPLER2DSHADOW {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd2D, false, true);
#endif
    }
    | F16SAMPLERCUBESHADOW {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc,
   "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdCube, false, true);
#endif
    }
    | F16SAMPLER1DARRAY {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd1D, true);
#endif
    }
    | F16SAMPLER2DARRAY {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd2D, true);
#endif
    }
    | F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc,
   "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd1D, true, true);
#endif
    }
    | F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
```

```
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd2D, true, true);
#endif
    }
    | F16SAMPLERCUBEARRAY {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdCube, true);
#endif
    }
    | F16SAMPLERCUBEARRAYSHADOW {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc,
   "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdCube, true, true);
#endif
    }
    | ISAMPLER1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, Esd1D);
    }
    | ISAMPLER2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, Esd2D);
    }
    | ISAMPLER3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, Esd3D);
    }
    | ISAMPLERCUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, EsdCube);
    }
    | ISAMPLER1DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
         $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, Esd1D, true);
    }
```

```
  | ISAMPLER2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd2D, true);
    }
  | ISAMPLERCUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, EsdCube, true);
    }
  | USAMPLER1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd1D);
    }
  | USAMPLER2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd2D);
    }
  | USAMPLER3D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd3D);
    }
  | USAMPLERCUBE {
      $$.init($1.loc,
parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, EsdCube);
    }
  | USAMPLER1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd1D, true);
    }
  | USAMPLER2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd2D, true);
    }
  | USAMPLERCUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, EsdCube, true);
    }
  | SAMPLER2DRECT {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, EsdRect);
    }
    | SAMPLER2DRECTSHADOW {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat,
 EsdRect, false, true);
    }
    | F16SAMPLER2DRECT {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdRect);
#endif
    }
    | F16SAMPLER2DRECTSHADOW {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdRect, false, true);
#endif
    }
    | ISAMPLER2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, EsdRect);
    }
    | USAMPLER2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;

    $$.sampler.set(EbtUint, EsdRect);
    }
    | SAMPLERBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, EsdBuffer);
    }
    | F16SAMPLERBUFFER {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdBuffer);
#endif
```

```
  }
  | ISAMPLERBUFFER {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, EsdBuffer);
  }
  | USAMPLERBUFFER {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, EsdBuffer);
  }
  | SAMPLER2DMS {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
       $$.sampler.set(EbtFloat, Esd2D, false, false, true);
  }
  | F16SAMPLER2DMS {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd2D, false, false, true);
#endif
  }
  | ISAMPLER2DMS {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd2D, false, false, true);
  }
  | USAMPLER2DMS {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd2D, false, false, true);
  }
  | SAMPLER2DMSARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat, Esd2D, true, false, true);
  }
  | F16SAMPLER2DMSARRAY
 {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd2D, true, false, true);
#endif
  }
```

```
  | ISAMPLER2DMSARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd2D, true, false, true);
    }
  | USAMPLER2DMSARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd2D, true, false, true);
    }
  | SAMPLER {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setPureSampler(false);
    }
  | SAMPLERSHADOW {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
       $$.sampler.setPureSampler(true);
    }
  | TEXTURE1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, Esd1D);
    }
  | F16TEXTURE1D {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat16, Esd1D);
#endif
    }
  | TEXTURE2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, Esd2D);
    }
  | F16TEXTURE2D {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat16,
 Esd2D);
#endif
    }
  | TEXTURE3D {
```

```
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, Esd3D);
    }
    | F16TEXTURE3D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, Esd3D);
#endif
    }
    | TEXTURECUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, EsdCube);
    }
    | F16TEXTURECUBE {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16,
 EsdCube);
#endif
    }
    | TEXTURE1DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, Esd1D, true);
    }
    | F16TEXTURE1DARRAY {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, Esd1D, true);
#endif
    }
    | TEXTURE2DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, Esd2D, true);
    }
    | F16TEXTURE2DARRAY {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
        $$.basicType = EbtSampler;
         $$.sampler.setTexture(EbtFloat16, Esd2D, true);
#endif
    }
    | TEXTURECUBEARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, EsdCube, true);
    }
    | F16TEXTURECUBEARRAY {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, EsdCube, true);
#endif
    }
    | ITEXTURE1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd1D);
    }
    | ITEXTURE2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd2D);
    }
    | ITEXTURE3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
         $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd3D);
    }
    | ITEXTURECUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, EsdCube);
    }
    | ITEXTURE1DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd1D, true);
    }
    | ITEXTURE2DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd2D, true);
    }
    | ITEXTURECUBEARRAY {
```

```
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, EsdCube, true);
    }
    | UTEXTURE1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint,
  Esd1D);
    }
    | UTEXTURE2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd2D);
    }
    | UTEXTURE3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd3D);
    }
    | UTEXTURECUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, EsdCube);
    }
    | UTEXTURE1DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd1D, true);
    }
    | UTEXTURE2DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd2D, true);
    }
    | UTEXTURECUBEARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
         $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, EsdCube, true);
    }
    | TEXTURE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, EsdRect);
    }
    | F16TEXTURE2DRECT {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
```

```
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, EsdRect);
#endif
    }
    | ITEXTURE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, EsdRect);
    }
    | UTEXTURE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, EsdRect);
    }
    | TEXTUREBUFFER
  {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, EsdBuffer);
    }
    | F16TEXTUREBUFFER {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, EsdBuffer);
#endif
    }
    | ITEXTUREBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, EsdBuffer);
    }
    | UTEXTUREBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, EsdBuffer);
    }
    | TEXTURE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat,
   Esd2D, false, false, true);
    }
    | F16TEXTURE2DMS {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
```

```
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, Esd2D, false, false, true);
#endif
    }
    | ITEXTURE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd2D, false, false, true);
    }
    | UTEXTURE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd2D, false, false, true);
    }
    | TEXTURE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, Esd2D, true, false, true);
    }
    | F16TEXTURE2DMSARRAY
   {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif
    }
    | ITEXTURE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd2D, true, false, true);
    }
    | UTEXTURE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd2D, true, false, true);
    }
    | IMAGE1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd1D);
    }
    | F16IMAGE1D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float
```

```
 image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16, Esd1D);
#endif
    }
    | IIMAGE1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, Esd1D);
    }
    | UIMAGE1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, Esd1D);
    }
    | IMAGE2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat, Esd2D);
    }
    | F16IMAGE2D {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16,
 Esd2D);
#endif
    }
    | IIMAGE2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, Esd2D);
    }
    | UIMAGE2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, Esd2D);
    }
    | IMAGE3D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat, Esd3D);
    }
    | F16IMAGE3D {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
```

```
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, Esd3D);
#endif
    }
    | IIMAGE3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt,
 Esd3D);
    }
    | UIMAGE3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd3D);
    }
    | IMAGE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, EsdRect);
    }
    | F16IMAGE2DRECT {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, EsdRect);
#endif
    }
    | IIMAGE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, EsdRect);
    }
    | UIMAGE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
         $$.sampler.setImage(EbtUint, EsdRect);
    }
    | IMAGECUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, EsdCube);
    }
    | F16IMAGECUBE {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, EsdCube);
#endif
    }
    | IIMAGECUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, EsdCube);
    }
    | UIMAGECUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, EsdCube);
    }
    | IMAGEBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType
 = EbtSampler;
        $$.sampler.setImage(EbtFloat, EsdBuffer);
    }
    | F16IMAGEBUFFER {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, EsdBuffer);
#endif
    }
    | IIMAGEBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, EsdBuffer);
    }
    | UIMAGEBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, EsdBuffer);
    }
    | IMAGE1DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd1D, true);
    }
    | F16IMAGE1DARRAY {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc,
 "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, Esd1D, true);
    #endif
      }
      | IIMAGE1DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, Esd1D, true);
      }
      | UIMAGE1DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd1D, true);
      }
      | IMAGE2DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd2D, true);
      }
      | F16IMAGE2DARRAY {
    #ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
         $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, Esd2D, true);
    #endif
      }
      | IIMAGE2DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, Esd2D, true);
      }
      | UIMAGE2DARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd2D, true);
      }
      | IMAGECUBEARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, EsdCube, true);
      }
      | F16IMAGECUBEARRAY {
    #ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, EsdCube, true);
```

```
#endif
    }
  | IIMAGECUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, EsdCube, true);
  }
  | UIMAGECUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, EsdCube, true);
  }
  | IMAGE2DMS {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat, Esd2D, false, false, true);
  }
  | F16IMAGE2DMS {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16, Esd2D, false, false, true);
#endif
  }
  | IIMAGE2DMS {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());

  $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, Esd2D, false, false, true);
  }
  | UIMAGE2DMS {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, Esd2D, false, false, true);
  }
  | IMAGE2DMSARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat, Esd2D, true, false, true);
  }
  | F16IMAGE2DMSARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif
```

```
  }
  | IIMAGE2DMSARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, Esd2D, true,
 false, true);
  }
  | UIMAGE2DMSARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, Esd2D, true, false, true);
  }
  | SAMPLEREXTERNALOES {  // GL_OES_EGL_image_external
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat, Esd2D);
      $$.sampler.external = true;
  }
  | SUBPASSINPUT {
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtFloat);
  }
  | SUBPASSINPUTMS {
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtFloat, true);
  }
  | F16SUBPASSINPUT {
#ifdef AMD_EXTENSIONS
       parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtFloat16);
#endif
  }
  | F16SUBPASSINPUTMS {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtFloat16, true);
```

```
#endif
  }
  | ISUBPASSINPUT {
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtInt);
   }
  | ISUBPASSINPUTMS {
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtInt, true);
  }
  | USUBPASSINPUT {
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtUint);
  }
  | USUBPASSINPUTMS {
      parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setSubpass(EbtUint, true);
  }
  | struct_specifier {
      $$ = $1;
      $$.qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;
      parseContext.structTypeCheck($$.loc, $$);
  }
  | TYPE_NAME {

//
      // This is for user defined type names.  The lexical phase looked up the
      // type.
      //
      if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
          const TType& structure = variable->getType();
          $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
          $$.basicType = EbtStruct;
          $$.userDef = &structure;
      } else
          parseContext.error($1.loc, "expected type name", $1.string->c_str(), "");
  }
  ;

precision_qualifier
```

```
  : HIGH_PRECISION {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      parseContext.handlePrecisionQualifier($1.loc, $$.qualifier, EpqHigh);
  }
  | MEDIUM_PRECISION {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      parseContext.handlePrecisionQualifier($1.loc,
 $$.qualifier, EpqMedium);
  }
  | LOW_PRECISION {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      parseContext.handlePrecisionQualifier($1.loc, $$.qualifier, EpqLow);
  }
  ;

struct_specifier
  : STRUCT IDENTIFIER LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list
RIGHT_BRACE {
      TType* structure = new TType($5, *$2.string);
      parseContext.structArrayCheck($2.loc, *structure);
      TVariable* userTypeDef = new TVariable($2.string, *structure, true);
      if (! parseContext.symbolTable.insert(*userTypeDef))
          parseContext.error($2.loc, "redefinition", $2.string->c_str(), "struct");
      $$.init($1.loc);
      $$.basicType = EbtStruct;
      $$.userDef = structure;
      --parseContext.structNestingLevel;
  }
  | STRUCT LEFT_BRACE { parseContext.nestedStructCheck($1.loc);
 } struct_declaration_list RIGHT_BRACE {
      TType* structure = new TType($4, TString(""));
      $$.init($1.loc);
      $$.basicType = EbtStruct;
      $$.userDef = structure;
      --parseContext.structNestingLevel;
  }
  ;

struct_declaration_list
  : struct_declaration {
      $$ = $1;
  }
  | struct_declaration_list struct_declaration {
      $$ = $1;
      for (unsigned int i = 0; i < $2->size(); ++i) {
```

```
            for (unsigned int j = 0; j < $$->size(); ++j) {
                if ((*$$)[j].type->getFieldName() == (*$2)[i].type->getFieldName())
                    parseContext.error((*$2)[i].loc, "duplicate member name:", "", (*$2)[i].type->getFieldName().c_str());
            }
            $$->push_back((*$2)[i]);
        }
    }
    ;

struct_declaration
    : type_specifier struct_declarator_list SEMICOLON {
        if ($1.arraySizes) {
            parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed
type");
            parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
            if (parseContext.profile == EEsProfile)
                parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
        }

        $$ = $2;

        parseContext.voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
        parseContext.precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);

        for (unsigned int i = 0; i < $$->size(); ++i) {
            parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $1.arraySizes);
            (*$$)[i].type->mergeType($1);
        }
    }
    | type_qualifier type_specifier struct_declarator_list SEMICOLON {
        parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
        if ($2.arraySizes) {
            parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
            if (parseContext.profile
== EEsProfile)
                parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
        }

        $$ = $3;

        parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
        parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
        parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
        parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

        for (unsigned int i = 0; i < $$->size(); ++i) {
            parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $2.arraySizes);
```

```
            (*$$)[i].type->mergeType($2);
        }
    }
    ;

struct_declarator_list
    : struct_declarator {
        $$ = new TTypeList;
        $$->push_back($1);
    }
    | struct_declarator_list COMMA struct_declarator {
        $$->push_back($3);
    }
    ;

struct_declarator
    : IDENTIFIER {
        $$.type = new TType(EbtVoid);
        $$.loc = $1.loc;
        $$.type->setFieldName(*$1.string);
     }
    | IDENTIFIER array_specifier {
        parseContext.arrayDimCheck($1.loc, $2.arraySizes, 0);

        $$.type = new TType(EbtVoid);
        $$.loc = $1.loc;
        $$.type->setFieldName(*$1.string);
        $$.type->newArraySizes(*$2.arraySizes);
    }
    ;

initializer
    : assignment_expression {
        $$ = $1;
    }
    | LEFT_BRACE initializer_list RIGHT_BRACE {
        const char* initFeature = "{ } style initializers";
        parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
        parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
        $$ = $2;
    }
    | LEFT_BRACE initializer_list COMMA RIGHT_BRACE {
        const char* initFeature = "{ } style initializers";
        parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
        parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
        $$ = $2;
    }
    ;
```

```
initializer_list
    : initializer {
        $$ = parseContext.intermediate.growAggregate(0, $1, $1->getLoc());
    }
    | initializer_list COMMA initializer {
        $$ = parseContext.intermediate.growAggregate($1, $3);
    }
    ;

declaration_statement
    : declaration { $$ = $1; }
    ;

statement
    : compound_statement  { $$ = $1; }
    | simple_statement    { $$ = $1; }
    ;

// Grammar Note:  labeled statements for switch statements only; 'goto' is not supported.

simple_statement
    : declaration_statement { $$ = $1; }
    | expression_statement  { $$ = $1; }
    | selection_statement   { $$ = $1; }
    | switch_statement      { $$ = $1; }
    | case_label            { $$ = $1; }
    | iteration_statement   { $$ = $1; }
    | jump_statement        { $$ = $1; }
    ;

compound_statement
    : LEFT_BRACE RIGHT_BRACE { $$ = 0; }
    | LEFT_BRACE {
        parseContext.symbolTable.push();
        ++parseContext.statementNestingLevel;
    }
      statement_list {
        parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
         --parseContext.statementNestingLevel;
    }
      RIGHT_BRACE {
        if ($3 && $3->getAsAggregate())
            $3->getAsAggregate()->setOperator(EOpSequence);
        $$ = $3;
    }
    ;
```

```
statement_no_new_scope
  : compound_statement_no_new_scope { $$ = $1; }
  | simple_statement                { $$ = $1; }
  ;

statement_scoped
  : {
      ++parseContext.controlFlowNestingLevel;
  }
    compound_statement  {
      --parseContext.controlFlowNestingLevel;
      $$ = $2;
  }
  | {
      parseContext.symbolTable.push();
      ++parseContext.statementNestingLevel;
      ++parseContext.controlFlowNestingLevel;
  }
    simple_statement {
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
      $$ = $2;
  }

compound_statement_no_new_scope
  // Statement that doesn't create a new scope,
 for selection_statement, iteration_statement
  : LEFT_BRACE RIGHT_BRACE {
      $$ = 0;
  }
  | LEFT_BRACE statement_list RIGHT_BRACE {
      if ($2 && $2->getAsAggregate())
          $2->getAsAggregate()->setOperator(EOpSequence);
      $$ = $2;
  }
  ;

statement_list
  : statement {
      $$ = parseContext.intermediate.makeAggregate($1);
      if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase ||
                                          $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
          parseContext.wrapupSwitchSubsequence(0, $1);
          $$ = 0;  // start a fresh subsequence for what's after this case
      }
  }
  | statement_list statement {
```

```
      if ($2 && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase ||
                                          $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
          parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate()
 : 0, $2);
          $$ = 0;  // start a fresh subsequence for what's after this case
      } else
          $$ = parseContext.intermediate.growAggregate($1, $2);
  }
  ;

expression_statement
  : SEMICOLON  { $$ = 0; }
  | expression SEMICOLON  { $$ = static_cast<TIntermNode*>($1); }
  ;

selection_statement
  : selection_statement_nonattributed {
      $$ = $1;
  }
  | attribute selection_statement_nonattributed {
      parseContext.handleSelectionAttributes(*$1, $2);
      $$ = $2;
  }

selection_statement_nonattributed
  : IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
      parseContext.boolCheck($1.loc, $3);
      $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
  }
  ;

selection_rest_statement
  : statement_scoped ELSE statement_scoped {
      $$.node1 = $1;
      $$.node2 = $3;
  }
  | statement_scoped {
      $$.node1 = $1;
      $$.node2 = 0;
  }
  ;

condition
  // In 1996 c++ draft,
 conditions can include single declarations
  : expression {
      $$ = $1;
      parseContext.boolCheck($1->getLoc(), $1);
```

```
  }
  | fully_specified_type IDENTIFIER EQUAL initializer {
      parseContext.boolCheck($2.loc, $1);

      TType type($1);
      TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
      if (initNode)
          $$ = initNode->getAsTyped();
      else
          $$ = 0;
  }
  ;

switch_statement
  : switch_statement_nonattributed {
      $$ = $1;
  }
  | attribute switch_statement_nonattributed {
      parseContext.handleSwitchAttributes(*$1, $2);
      $$ = $2;
  }

switch_statement_nonattributed
  : SWITCH LEFT_PAREN expression RIGHT_PAREN {
      // start new switch sequence on the switch stack
      ++parseContext.controlFlowNestingLevel;
      ++parseContext.statementNestingLevel;
      parseContext.switchSequenceStack.push_back(new TIntermSequence);
      parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
       parseContext.symbolTable.push();
  }
  LEFT_BRACE switch_statement_list RIGHT_BRACE {
      $$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
      delete parseContext.switchSequenceStack.back();
      parseContext.switchSequenceStack.pop_back();
      parseContext.switchLevel.pop_back();
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
  }
  ;

switch_statement_list
  : /* nothing */ {
      $$ = 0;
  }
  | statement_list {
      $$ = $1;
```

```
  }
  ;

case_label
  : CASE expression COLON {
      $$ = 0;
      if (parseContext.switchLevel.size() == 0)
          parseContext.error($1.loc, "cannot appear outside switch statement", "case", "");
      else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
          parseContext.error($1.loc,
 "cannot be nested inside control flow", "case", "");
      else {
          parseContext.constantValueCheck($2, "case");
          parseContext.integerCheck($2, "case");
          $$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
      }
  }
  | DEFAULT COLON {
      $$ = 0;
      if (parseContext.switchLevel.size() == 0)
          parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
      else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
          parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
      else
          $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
  }
  ;

iteration_statement
  : iteration_statement_nonattributed {
      $$ = $1;
  }
  | attribute iteration_statement_nonattributed {
      parseContext.handleLoopAttributes(*$1, $2);
      $$ = $2;
  }

iteration_statement_nonattributed
    : WHILE LEFT_PAREN {
      if (! parseContext.limits.whileLoops)
          parseContext.error($1.loc, "while loops not available", "limitation", "");
      parseContext.symbolTable.push();
      ++parseContext.loopNestingLevel;
      ++parseContext.statementNestingLevel;
      ++parseContext.controlFlowNestingLevel;
  }
    condition RIGHT_PAREN statement_no_new_scope {
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
```

```
      $$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
      --parseContext.loopNestingLevel;
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
    }
    | DO {
      ++parseContext.loopNestingLevel;
      ++parseContext.statementNestingLevel;
      ++parseContext.controlFlowNestingLevel;
    }
      statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
      if (! parseContext.limits.whileLoops)
          parseContext.error($1.loc, "do-while loops
 not available", "limitation", "");

      parseContext.boolCheck($8.loc, $6);

      $$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
      --parseContext.loopNestingLevel;
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
    }
    | FOR LEFT_PAREN {
      parseContext.symbolTable.push();
      ++parseContext.loopNestingLevel;
      ++parseContext.statementNestingLevel;
      ++parseContext.controlFlowNestingLevel;
    }
      for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
      $$ = parseContext.intermediate.makeAggregate($4, $2.loc);
      TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>($5.node1),
reinterpret_cast<TIntermTyped*>($5.node2), true, $1.loc);
      if (! parseContext.limits.nonInductiveForLoops)
          parseContext.inductiveLoopCheck($1.loc,
 $4, forLoop);
      $$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
      $$->getAsAggregate()->setOperator(EOpSequence);
      --parseContext.loopNestingLevel;
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
    }
    ;

for_init_statement
    : expression_statement {
      $$ = $1;
    }
```

```
  | declaration_statement {
      $$ = $1;
    }
    ;

conditionopt
    : condition {
      $$ = $1;
    }
    | /* May be null */ {
      $$ = 0;
    }
    ;

for_rest_statement
    : conditionopt SEMICOLON {
      $$.node1 = $1;
      $$.node2 = 0;
    }
    | conditionopt SEMICOLON expression  {
      $$.node1 = $1;
      $$.node2 = $3;
    }
    ;

jump_statement
    : CONTINUE SEMICOLON {
      if (parseContext.loopNestingLevel <= 0)
          parseContext.error($1.loc, "continue statement only allowed in loops", "", "");
      $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
    }
    |
   BREAK SEMICOLON {
      if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
          parseContext.error($1.loc, "break statement only allowed in switch and loops", "", "");
      $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
    }
    | RETURN SEMICOLON {
      $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
      if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
          parseContext.error($1.loc, "non-void function must return a value", "return", "");
      if (parseContext.inMain)
          parseContext.postEntryPointReturn = true;
    }
    | RETURN expression SEMICOLON {
      $$ = parseContext.handleReturnValue($1.loc, $2);
    }
    | DISCARD SEMICOLON {
```

```
        parseContext.requireStage($1.loc, EShLangFragment, "discard");
        $$ = parseContext.intermediate.addBranch(EOpKill, $1.loc);
    }
    ;

// Grammar Note:  No 'goto'.  Gotos are not supported.

translation_unit
    : external_declaration
 {
        $$ = $1;
        parseContext.intermediate.setTreeRoot($$);
    }
    | translation_unit external_declaration {
        if ($2 != nullptr) {
            $$ = parseContext.intermediate.growAggregate($1, $2);
            parseContext.intermediate.setTreeRoot($$);
        }
    }
    ;

external_declaration
    : function_definition {
        $$ = $1;
    }
    | declaration {
        $$ = $1;
    }
    | SEMICOLON {
        parseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
        parseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
        $$ = nullptr;
    }
    ;

function_definition
    : function_prototype {
        $1.function = parseContext.handleFunctionDeclarator($1.loc, *$1.function, false /* not prototype */);
        $1.intermNode = parseContext.handleFunctionDefinition($1.loc, *$1.function);
    }
    compound_statement_no_new_scope {
        //   May be best done as post process phase on intermediate
 code
        if (parseContext.currentFunctionType->getBasicType() != EbtVoid && ! parseContext.functionReturnsValue)
            parseContext.error($1.loc, "function does not return a value:", "", $1.function->getName().c_str());
        parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
        $$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
        parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
```

```
      $$->getAsAggregate()->setName($1.function->getMangledName().c_str());

      // store the pragma information for debug and optimize and other vendor specific
      // information. This information can be queried from the parse tree
      $$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
      $$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
      $$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
  }
  ;

attribute

  : LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET {
      $$ = $3;
      parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
  }

attribute_list
  : single_attribute {
      $$ = $1;
  }
  | attribute_list COMMA single_attribute {
      $$ = parseContext.mergeAttributes($1, $3);
  }

single_attribute
  : IDENTIFIER {
      $$ = parseContext.makeAttributes(*$1.string);
  }
  | IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
      $$ = parseContext.makeAttributes(*$1.string, $3);
  }

%%
```

Found in path(s):
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/glslang.y
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/Common.h

* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/disassemble.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/InfoSink.h
*
/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/parseVersions.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/SpvBuilder.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/ShHandle.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/ConstantUnion.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/BaseTypes.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/doc.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/SymbolTable.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/ParseHelper.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Intermediate.cpp
*
/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/hlsl/hlslParseHelper.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/arrays.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/ShaderLang.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/disassemble.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/intermediate.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/ParseHelper.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/doc.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/hlsl/hlslParseables.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/PoolAlloc.h
*
/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/SPVRemapper.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Initialize.cpp
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/hlsl/hlslParseables.h
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/InfoSink.cpp
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Initialize.h

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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/iomapper.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/PoolAlloc.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/spvIR.h
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/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/OSDependent/Windows/ossource.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Versions.cpp
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/gtests/Spv.FromFile.cpp
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/gtests/Link.FromFile.Vk.cpp
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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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1.403 charset-normalizer 2.0.9

1.403.1 Available under license :

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---

17 files are included in the source distribution tar. They are used to verify the standard functions of this library. They are mandatory to run `pytest` but not required to make the lib usable after install. They DO NOT guarantee that the detection-coverage will not regress.

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1.404 python 3.8.2-0ubuntu2

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This is the Debian GNU/Linux prepackaged version of the Python programming
language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
2.3 version is released.

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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
3.0	2.6	2008	PSF	yes
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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py3compile, py3clean and debpython module:
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1.405 libseccomp 2.5.1-1ubuntu1~20.04.2

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1.406 google-golang-org-genproto 0.0.0-20190819201941-24fa4b261c55

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1.407 properties 1.8.1

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goproperties - properties file decoder for Go

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1.408 configparser 5.2.0

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1.409 log4j-api 2.17.1

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1.410 log4j-to-slf4j 2.17.1

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1.411 apache-log4j 2.17.1

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1.412 valyala-histogram 1.1.2

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1.413 valyala-fastrand 1.0.0

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```
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on:
 push:
   paths:
     - 'vendor'
 pull_request:
   paths:
     - 'vendor'
permissions:
 contents: read

jobs:
 build:
   name: Build
   runs-on: ubuntu-latest
   steps:
     - name: Setup Go
       uses: actions/setup-go@main
       with:
         go-version: 1.18
       id: go
     - name: Code checkout
       uses: actions/checkout@master
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       run: |
         make check-licenses
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.415 victoriametrics-metrics 1.18.1

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1.416 valyala-histogram 1.2.0

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1.417 valyala-fastrand 1.1.0

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1.418 glibc 2.27-3ubuntu1

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* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.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 >Note: For W3C XML Schema [XML Schema Part 1]

```
    *   , 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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Found in path(s):
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java
```

1.420 simpleclient 0.9.0

1.420.1 Available under license :

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* Source: http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/jsr166e/Striped64.java?revision=1.10
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* /simpleclient-0-9-0-sources-jar/io/prometheus/client/Striped64.java
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* /simpleclient-0-9-0-sources-jar/io/prometheus/client/DoubleAdder.java

1.421 simpleclient-servlet 0.9.0

1.421.1 Available under license :

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1.422 simpleclient-dropwizard 0.9.0

1.422.1 Available under license :

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1.423 jetty-setuid-java 1.0.4

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* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java
* /jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java

1.424 logging-interceptor 3.12.12

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* /logging-interceptor-3-12-12-sources-jar/okhttp3/logging/LoggingEventListener.java

1.425 zjsonpatch 0.3.0

1.425.1 Available under license :

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* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/NodeType.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonDiff.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/NoopProcessor.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/ApplyProcessor.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Constants.java
*
/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/CompatibilityFlags.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonPatchApplicationException.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonPatchProcessor.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/InvalidJsonPatchException.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Operation.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonPatch.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Diff.java

1.426 java-semver 0.9.0

1.426.1 Available under license :

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* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/LexerException.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/package-info.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/And.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Not.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/ExpressionParser.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/package-info.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/GreaterOrEqual.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/LessOrEqual.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Equal.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/UnexpectedTokenException.java
*
 /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/NotEqual.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/CompositeExpression.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Or.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/Stream.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Expression.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/VersionParser.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/UnexpectedElementException.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/Version.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/NormalVersion.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Lexer.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/UnexpectedCharacterException.java
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 /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/package-info.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Less.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/Parser.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Greater.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/ParseException.java
* /java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/MetadataVersion.java

1.427 profiler 1.1.1

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* /gae-mini-profiler-1-1-1-sources-jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java
* /gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/MiniProfiler.java
* /gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/MiniProfilerFilter.java
* /gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java
* /gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/MiniProfilerServlet.java
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1.428 simpleclient-common 0.9.0

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1.429 stateless4j 2.5.0

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* /stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
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1.430 mchange-commons-java 0.2.15

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1.434 jackson-jaxrs 2.9.9

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1.437 jakarta-el 3.0.4

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1.440 reflections 0.9.12

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1.445 inet.af-netaddr 0.0.0-20211027220019-c74959edd3b6

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1.446 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1

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1.447 slf4j 1.7.36

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1.448 jul-to-slf4j 1.7.36

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1.450 benbjohnson-clock 1.1.0

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1.451 go-ldap-ldap 3.4.2

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1.452 bouncycastle-fips 1.0.2.3

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1.453 metrics 4.1.12.1

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1.455 assertions 0.0.0-20180927180507-b2de0cb4f26d

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1.456 logback-core 1.2.11

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1.457 go-logr-stdr 1.2.2

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d) Convey the object code by offering access from a designated
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This package was put together by Matthias Klose <doko@debian.org>, from
the following sources:

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Bash homepage: http://tiswww.case.edu/php/chet/bash/bashtop.html

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1.476 xml-apis 1.3.04

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1.479 protobuf 1.26.0

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1.481 jwalterweatherman 1.1.0

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1.482 glob 0.2.3

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  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
   * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)

1.488 google-uuid 1.2.0

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bmatsuo
shawnps
theory
jboverfelt
dsymonds
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1.489 sarama 1.29.1

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1.490 gokrb5 7.3.0

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1.491 open-ldap 2.4.49+dfsg-2ubuntu1.9

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Sections 1 and 2 above provided that you also do one of the following:

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source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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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Appendix: How to Apply These Terms to Your New Programs

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

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

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Version 2.1, February 1999

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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.

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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.

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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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(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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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 License.

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these notices.

Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or
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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.

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.

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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

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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

e) Verify that the user has already received a copy of these
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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 major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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Ty Coon, President of Vice

That's all there is to it!

1.499 e2fsprogs 1.45.5-2ubuntu1.1

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This package was added to the e2fsprogs debian source package by
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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This is the Debian GNU/Linux prepackaged version of the translation
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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
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    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by
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:

http://sourceforge.net/projects/e2fsprogs

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

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

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

This package was put together by Yann Dirson <dirson@debian.org>,
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1.500 google-cloud-go 0.97.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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
}
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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#TestIamPermissionsLicenseCodeRequ
est.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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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
}
```

1.501 stackexchange-wmi 0.0.0-20190523213315-cbe66965904d

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1.502 x-lint 0.0.0-20201208152925-83fdc39ff7b5

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1.504 nmcclain-asn1-ber 0.0.0-20170104154839-2661553a0484

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1.505 gopherjs 0.0.0-20181017120253-0766667cb4d1

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1.506 coreos-bbolt 1.3.6

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1.507 stackexchange-wmi 1.2.0

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1.509 felixge-httpsnoop 1.0.3

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1.511 go-errors-errors 1.4.0

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1.512 python-certifi 2021.05.30

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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:
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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1.513 docker-distribution 2.8.1+incompatible

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Gocheck - A rich testing framework for Go

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* 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
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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

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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
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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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

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

The following artifacts are ASL2 licensed. Based on selected classes from
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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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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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* 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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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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1.519 golang-jwt 3.2.1+incompatible

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1.520 prometheus-common 0.37.0

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.524 audience-annotations 0.13.0

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1.526 go-colorable 0.1.13

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1.527 gopkg.in-check 1.0.0-20190902080502-41f04d3bba15

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1.528 jakarta-inject-api 1.0.5

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1.529 chardet 4.0.0

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1.530 html5lib 1.1

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1.534 python-certifi 2021.10.8

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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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1.535 pyyaml 6.0

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Manifest-Version: 1.0
Bnd-LastModified: 1655327871630
Build-Jdk: 11.0.15
Built-By: fabian
Bundle-Description: The Prometheus Java Suite: Client Metrics, Expositio
n, and Examples
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Span Context Supplier - OpenTelemetry
Bundle-SymbolicName: io.prometheus.simpleclient_tracer_otel
Bundle-Version: 0.16.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.exemplars.tracer.otel;uses:="io.pro
metheus.client.exemplars.tracer.common";version="0.16.0"
Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prome
theus.client.exemplars.tracer.common;version="[0.16,1)"
Tool: Bnd-2.1.0.20130426-122213

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1.540 simpleclient-common 0.16.0

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1.541 simpleclient-httpserver 0.16.0

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1.542 simpleclient_tracer_otel_agent 0.16.0

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1.543 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

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1.544 pcre 10.34-7ubuntu0.1

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.546 scala-logging_2.13 3.9.4

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1.547 google-go-cmp 0.5.9

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1.548 go-openapi-swag 0.22.3

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1.549 x-tools 0.1.12

1.549.1 Available under license :

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package hooks

import (
 "bytes"
 "io/ioutil"
 "os/exec"
 "runtime"
 "testing"

 "golang.org/x/tools/internal/testenv"
)
```

```
func TestLicenses(t *testing.T) {
 // License text differs for older Go versions because staticcheck isn't
 // supported for those versions.
 testenv.NeedsGo1Point(t, 17)

 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
  t.Skip("generating licenses only works on Unixes")
 }
 tmp, err := ioutil.TempFile("", "")
 if err != nil {
  t.Fatal(err)
 }
 tmp.Close()

 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
  t.Fatalf("generating licenses failed: %q, %v", out, err)
 }

 got, err := ioutil.ReadFile(tmp.Name())
 if err != nil {
  t.Fatal(err)
 }
 want, err := ioutil.ReadFile("licenses.go")
 if err != nil {
  t.Fatal(err)
 }
 if !bytes.Equal(got, want) {
  t.Error("combined
 license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
 }
}
```

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//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
 "go/ast"
 "go/parser"
 "go/token"
 "io/fs"
 "io/ioutil"
 "path/filepath"
 "regexp"
 "strings"
)

func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
  if err != nil {
   return err
  }
  if d.IsDir() {
   // Skip directories like ".git".
   if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
   }
   // Skip any directory that starts with an underscore, as the go
   // command would.
   if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
   }

```
  return nil
 }
 needsCopyright, err := checkFile(dir, path)
 if err != nil {
  return err
 }
 if needsCopyright {
  files
= append(files, path)
 }
 return nil
})
return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, "go") {
  return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
  return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
  return false, nil
 }
 content, err := ioutil.ReadFile(filename)
 if err != nil {
  return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
 if err != nil {
  return false, err
 }
 // Don't require headers
 on generated files.
 if isGenerated(fset, parsed) {
  return false, nil
 }
 shouldAddCopyright := true
```

```
 for _, c := range parsed.Comments {
  // The copyright should appear before the package declaration.
  if c.Pos() > parsed.Package {
   break
  }
  if copyrightRe.MatchString(c.Text()) {
   shouldAddCopyright = false
   break
  }
 }
 return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
  for _, comment := range commentGroup.List {
   if matched := generatedRx.MatchString(comment.Text); !matched {
    continue
   }
   // Check if comment is at the beginning of the line in source.
   if pos := fset.Position(comment.Slash); pos.Column == 1 {
    return true
   }
  }
 }
 return
 false
}
```

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//go:generate ./gen-licenses.sh licenses.go
package hooks

const licensesText = `
-- github.com/BurntSushi/toml COPYING --

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`

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// +build go1.18

package copyright

import (
 "os"
 "path/filepath"
 "strings"
 "testing"
)

func TestToolsCopyright(t *testing.T) {
 cwd, err := os.Getwd()
 if err != nil {
  t.Fatal(err)
 }
 tools := filepath.Dir(cwd)
 if !strings.HasSuffix(filepath.Base(tools), "tools") {
  t.Fatalf("current working directory is %s, expected tools", tools)
 }
 files, err := checkCopyright(tools)
 if err != nil {
  t.Fatal(err)
 }
 if len(files) > 0 {
  t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
```

1.550 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
*   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 383368 - [compiler][null] syntactic null analysis for field references
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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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*     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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*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
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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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*     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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* 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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*   Dennis Hendriks - initial API and implementation
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* /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
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java
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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 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
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypeMirrorImpl.java

* /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/batch/BasicModule.java
* /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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationTargetTypeConstants.java
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*   Frits Jalvingh - fix for bug 533830.

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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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*   tyeung@bea.com - initial API and implementation
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /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/RecoveredOpensStatement.java
* /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
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.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/apt/model/ElementImpl.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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 /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.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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*         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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*         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
*******************************************************************************/
```

Found in path(s):
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* Contributors:
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerImpl.java
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* Contributors:
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*         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 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/IBinaryField.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*         Bug 473178
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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```
*     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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java
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*         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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java
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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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*         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 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 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java
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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/apt/util/EclipseFileManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
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*   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/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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*   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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* 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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* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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*     Stephan Herrmann - Contributions for
*         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 - Contribution for
*   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 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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* 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AND_AND_Expression.java
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* 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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*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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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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*     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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*   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
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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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*     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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*         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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*   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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*          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
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*          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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*   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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeBinding.java
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*     Stephan Herrmann - Contribution for
*       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/ast/JavadocQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java
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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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*     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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*   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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*   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 - 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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*   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/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
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
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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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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java
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*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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*   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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```
*     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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*   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 fixes
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*   wharley@bea.com - initial API and implementation

*   (originally in org.eclipse.jdt.apt.core)
*   IBM Corporation - Bug 513790
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*   Stephan Herrmann - Contributions for
*   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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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*   Bug 473178
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*        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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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*   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/env/ClassSignature.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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*   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.
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*       Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* Contributors:
*     Stephan Herrmann - initial API and implementation
```

***/

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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
*
***/

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* /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
*******************************************************************************/
```

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* /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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* 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ReadManager.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
*******************************************************************************/
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java
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*     Stephan Herrmann - Contribution for
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************/
```

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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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* 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
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Found
 in path(s):
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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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*   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/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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*    Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation
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```

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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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*   tyeung@bea.com - initial API and implementation
*   olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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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 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 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
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
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*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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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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*        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/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
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*   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
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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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*   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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* Contributors:
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Scanner.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 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-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypesImpl.java
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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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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Opcodes.java
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* /ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java
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*     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-3-jar/org/eclipse/jdt/internal/compiler/ast/SuperReference.java

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* Contributors:
*     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/problem/DefaultProblem.java
* /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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* Contributors:
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*            Bug 407191 - [1.8] Binary access support for type annotations
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Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
* /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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IfStatement.java
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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
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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*     Stephan Herrmann - Contribution for
*        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 - 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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*     IBM Corporation - initial API and implementation
*     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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* /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/ast/StringLiteralConcatenation.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
 /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
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.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
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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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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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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*   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
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntersectionCastTypeReference.java

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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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*     Stephan Herrmann - Contribution for
*       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/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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*   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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* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
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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 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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* Contributors:
*     IBM Corporation - initial API and implementation
*     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/util/SortedCharArrays.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.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 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-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/apt/util/JrtFileSystem.java
* /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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*   tyeung@bea.com - initial API and implementation
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* /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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*   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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*   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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*   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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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*        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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*     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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*    IBM Corporation - Fix for bug 341494
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*    IBM Corporation - Java 8 support
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*
* Contributors:
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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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*   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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*   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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*   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 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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*   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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*     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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*   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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*   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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1.551 pcre 8.39-12ubuntu0.1

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Written by: Philip Hazel
Email local part: ph10
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1.552 audit 2.8.5-2ubuntu6

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*
 /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/web/Webserver.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/StringL.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/TokenId.java
* /javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/Variable.java
* /javassist-3-29-2-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AttributeInfo.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-29-2-ga-sources-jar/javassist/tools/reflect/Reflection.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /javassist-3-29-2-ga-sources-jar/javassist/CtField.java
* /javassist-3-29-2-ga-sources-jar/javassist/expr/NewExpr.java

* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/CodeAnalyzer.java
No license file was found, but licenses were detected in source scan.

/*
* Javassist, a Java-bytecode translator toolkit.
* Copyright (C) 2004 Bill Burke. All Rights Reserved.
*
* The contents of this file are subject to the Mozilla Public License Version
* 1.1 (the "License"); you may not use this file except in compliance with
* the License. Alternatively, the contents of this file may be used under
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* or the Apache License Version 2.0.
*
* Software distributed under the License is distributed on an "AS IS" basis,
* WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
* for the specific language governing rights and limitations under the
* License.
*/

Found in path(s):
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
*
 /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java

1.555 zlib 1.2.11.dfsg-2ubuntu1.5

1.555.1 Available under license :

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

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for 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/gzwrite.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 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/inffast.h
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* unzip.c -- 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

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.

Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
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

Copyright (C) 2007-2008 Even Rouault

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

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
No license file was found, but licenses were detected in source scan.

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/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* 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.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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distribution.

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
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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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).
*/

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

Condition of use and distribution are the same than zlib :

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

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
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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 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.

/* 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.

/* 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.

/* 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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misrepresented as being the original software.
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not be removed or altered from any source distribution.

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

 Copyright (C) 2003, 2012 Mark Adler, all rights reserved
 version 1.2, 11 Oct 2012

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removed or altered from any source distribution.

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

1.556 apache-commons-text 1.10.0

1.556.1 Available under license :

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

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1.558 x-sync 0.1.0

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1.560 go-errors-errors 1.4.2

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* /gson-2-10-sources-jar/com/google/gson/FieldNamingPolicy.java
* /gson-2-10-sources-jar/com/google/gson/internal/Primitives.java
* /gson-2-10-sources-jar/com/google/gson/FieldNamingStrategy.java
* /gson-2-10-sources-jar/com/google/gson/annotations/Expose.java
*
 /gson-2-10-sources-jar/com/google/gson/internal/ObjectConstructor.java
* /gson-2-10-sources-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java

* /gson-2-10-sources-jar/com/google/gson/annotations/Until.java
* /gson-2-10-sources-jar/com/google/gson/JsonSerializationContext.java
* /gson-2-10-sources-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-10-sources-jar/com/google/gson/internal/$Gson$Preconditions.java
* /gson-2-10-sources-jar/com/google/gson/JsonElement.java
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* /gson-2-10-sources-jar/com/google/gson/JsonDeserializer.java
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* /gson-2-10-sources-jar/com/google/gson/JsonParseException.java
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* /gson-2-10-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-10-sources-jar/com/google/gson/TypeAdapter.java
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* /gson-2-10-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
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1.563 pkix-ssh 13.5

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                                   ^
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                                   ^
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1.572 prometheus-client-model 0.2.0

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1.573 scala-java8-compat_2.13 1.0.2

1.573.1 Available under license :

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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

1.574 zap 1.24.0

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1.575 scala-reflect 2.13.10

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1.582 gopherjs 0.0.0-20190910122728-9d188e94fb99

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1.583 httpcomponents-core 4.4.16

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1.584 x-time-rate 0.3.0

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1.585 x-net 0.5.0

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1.586 x-text 0.6.0

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1.587 x-sys 0.4.0

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1.588 go-openapi-jsonpointer 0.19.6

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1.589 go-openapi-jsonreference 0.20.1

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1.590 x-term 0.4.0

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1.591 lz4 1.2.13

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1.592 x-crypto 0.5.0

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1.593 victoriametrics-metrics 1.23.0

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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
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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
2.1.2	2.1.1	2002	PSF	yes
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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, 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 http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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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		

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python -m validate_pyproject.pre_compile --output-dir=setuptools/config/_validate_pyproject --enable-plugins setuptools distutils --very-verbose

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You can report issues or suggest changes directly to `validate-pyproject`
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`fastjsonschema`

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1.595 go-openapi-jsonreference 0.20.2

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1.596 wheel 0.34.2-1ubuntu0.1

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1.597 six 1.14.0-2

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1.598 xstrings 1.4.0

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1.599 jackson-databind 2.13.5

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vis.c in libroken

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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lib/hcrypto/test_dh.c

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1.612 stackexchange-wmi 1.2.1

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1.617 x-crypto 0.6.0

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1.618 tcpdump 4.9.3-4ubuntu0.2

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1.619 gnutls 3.6.13-2ubuntu1.8

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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.
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* /jose4j-0-9-3-sources-jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/AesGcmContentEncryptionAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JwtConsumer.java
*
 /jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionParts.java
* /jose4j-0-9-3-sources-jar/org/jose4j/http/SimpleGet.java
* /jose4j-0-9-3-sources-jar/org/jose4j/json/JsonUtil.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/Pbes2HmacShaWithAesKeyWrapAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/lang/UnresolvableKeyException.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/X509VerificationKeyResolver.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/CipherUtil.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/lang/InvalidAlgorithmException.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/http/Get.java
* /jose4j-0-9-3-sources-jar/org/jose4j/lang/DefaultByteGenerator.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jws/JsonWebSignatureAlgorithm.java
*
 /jose4j-0-9-3-sources-jar/org/jose4j/jws/RsaUsingShaAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/InitializationVectorHelp.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JwtContext.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/VerificationKeyResolver.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/EllipticCurveJsonWebKey.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwx/CompactSerialization.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/JwtClaims.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jca/ProviderContext.java
* /jose4j-0-9-3-sources-jar/org/jose4j/lang/JoseException.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwa/AlgorithmFactoryFactory.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/AesKeyWrapManagementAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jws/UnsecuredNoneAlgorithm.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwa/AlgorithmConstraints.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/KeyManagementAlgorithmIdentifiers.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/keys/PbkdfKey.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/OctJwkGenerator.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionKeys.java
* /jose4j-0-9-3-sources-jar/org/jose4j/base64url/Base64Url.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/keys/AesKey.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/RsaJsonWebKey.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/DirectKeyManagementAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwx/Headers.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/SubValidator.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/WrappingKeyManagementAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/PublicJsonWebKey.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/IntDate.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/KeyOperations.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jws/EcdsaUsingShaAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/Validator.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwx/KeyValidationSupport.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/lang/IntegrityException.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/JsonWebKey.java
* /jose4j-0-9-3-sources-jar/org/jose4j/lang/ByteGenerator.java
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 /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JweCustomizer.java
* /jose4j-0-9-3-sources-jar/org/jose4j/mac/MacUtil.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/GeneralJwtException.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwa/AlgorithmFactory.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/KeyManagementAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/IssValidator.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/SimpleAeadCipher.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/keys/X509Util.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/base64url/SimplePEMEncoder.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/lang/BouncyCastleProviderHelp.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jws/JsonWebSignature.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/MalformedClaimException.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/EllipticCurves.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/EcJwkGenerator.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java
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 /jose4j-0-9-3-sources-jar/org/jose4j/jwt/ReservedClaimNames.java
* /jose4j-0-9-3-sources-jar/org/jose4j/lang/HashUtil.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwa/Algorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodes.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java
* /jose4j-0-9-3-sources-jar/org/jose4j/zip/CompressionAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JtiValidator.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwx/CompactSerializer.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/lang/ExceptionHelp.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/KeyPersuasion.java
* /jose4j-0-9-3-sources-jar/org/jose4j/lang/JsonHelp.java
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/jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionKeyDescriptor.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/NumericDateValidator.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwk/VerificationJwkSelector.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jws/BaseSignatureAlgorithm.java
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* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionAlgorithm.java
* /jose4j-0-9-3-sources-jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java
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1.646 go-ole-go-ole 1.2.6

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1.647 libmnl 1.0.4-2

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1.649 libpkit 0.23.20-1ubuntu0.1

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1.650 kubernetes-klog 2.90.1

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1.653 klauspost-compress 1.16.0

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* /jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel/pom.xml
* /jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_httpserver/pom.xml
* /jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus.jmx/jmx_prometheus_javaagent_common/pom.xml
*
/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_hotspot/pom.xml

1.655 collector 0.18.0

1.655.1 Available under license :

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<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /collector-0-18-0-sources-jar/META-INF/maven/io.prometheus.jmx/collector/pom.xml

1.656 jmx_prometheus_javaagent_common 0.18.0

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Found in path(s):
* /jmx-prometheus-javaagent-common-0-18-0-sources-jar/META-INF/maven/io.prometheus.jmx/jmx_prometheus_javaagent_common/pom.xml

1.657 base-files 11ubuntu5.7

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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

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

The following artifacts are licensed by the OW2 Foundation according to the
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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

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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

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cmd/krb5/kproplog/kproplog.c
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
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lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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
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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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* /error-prone-annotations-2-18-0-1-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.663 jackson-dataformat-csv 2.13.5

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Found in path(s):
* /jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java
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Found in path(s):
* /jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java

1.670 jline-reader 3.22.0

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Found in path(s):
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Parser.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/LineReader.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Highlighter.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/PrintAboveWriter.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/history/DefaultHistory.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/DefaultHighlighter.java
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Found in path(s):
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/LineReaderImpl.java
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Found in path(s):

* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Buffer.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/BufferImpl.java
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Found in path(s):
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Reference.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Expander.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/UndoTree.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/package-info.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/history/package-info.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Binding.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Widget.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /jline-reader-3-22-0-sources-jar/org/jline/keymap/KeyMap.java
*
 /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/UserInterruptException.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/package-info.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Macro.java
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Found in path(s):
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Editor.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Candidate.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java

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Found in path(s):
* /jline-reader-3-22-0-sources-jar/org/jline/reader/SyntaxError.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/EOFError.java
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Found in path(s):
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/DefaultParser.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/SystemCompleter.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/EndOfFileException.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/CompletionMatcher.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/LineReaderBuilder.java
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Found in path(s):
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/KillRing.java
* /jline-reader-3-22-0-sources-jar/org/jline/keymap/BindingReader.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/ParsedLine.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/CompletingParsedLine.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/History.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/Completer.java
* /jline-reader-3-22-0-sources-jar/org/jline/reader/MaskingCallback.java

1.671 jline-style 3.22.0

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Found in path(s):
* /jline-style-3-22-0-sources-jar/org/jline/style/StyleSource.java
* /jline-style-3-22-0-sources-jar/org/jline/style/Styler.java
* /jline-style-3-22-0-sources-jar/org/jline/style/StyleExpression.java
* /jline-style-3-22-0-sources-jar/org/jline/style/StyleFactory.java
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* /jline-style-3-22-0-sources-jar/org/jline/style/MemoryStyleSource.java

* /jline-style-3-22-0-sources-jar/org/jline/style/StyleColor.java
* /jline-style-3-22-0-sources-jar/org/jline/style/StyleBundle.java
* /jline-style-3-22-0-sources-jar/org/jline/style/StyledWriter.java
* /jline-style-3-22-0-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-style-3-22-0-sources-jar/org/jline/style/StyleResolver.java
* /jline-style-3-22-0-sources-jar/org/jline/style/InterpolationHelper.java
* /jline-style-3-22-0-sources-jar/org/jline/style/NopStyleSource.java

1.672 jline-terminal 3.22.0

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* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/spi/TerminalProvider.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/Diag.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.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
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
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key_create, kcrt, @6
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key_dl, kdl1, kL
key_down, kcud1, kd
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key_eos,
ked, kS
key_exit, kext, @9
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key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1

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key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj

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Fm
key_f59, kf59, Fn
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key_f61, kf61, Fp
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key_f63, kf63, Fr
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key_help, khlp, %1
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key_ic, kich1, kI
key_il, kil1, kA
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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
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key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
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key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8

key_sexit, kEXT, *9
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key_sfind, kFND, *0
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key_shome, kHOM, #2
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key_sleft, kLFT, #4
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key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f
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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-3-22-0-sources-jar/org/jline/utils/NonBlocking.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/StyleResolver.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/Terminal.java
*
/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/Timeout.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/Size.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingReader.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/Colors.java
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* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/TerminalBuilder.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/AttributedCharSequence.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/AttributedStyle.java
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class = org.jline.terminal.impl.exec.ExecTerminalProvider

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fuchsia
aqua
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blue3
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darkgreen
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deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4

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deepskyblue3a
dodgerblue1
green3
springgreen3
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lightseagreen
deepskyblue2
deepskyblue1
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springgreen3a
springgreen2
cyan3
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green1
springgreen2a
springgreen1
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cyan1
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purple4a
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cornflowerblue
chartreuse3
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cadetbluea
skyblue3
steelblue1
chartreuse3a
palegreen3
seagreen3

aquamarine3
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steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
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deeppink4a
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darkmagentaa
darkviolet
purplea
orange4a
lightpink4
plum4
mediumpurple3
mediumpurple3a
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wheat4
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darkslategray3
skyblue1
chartreuse1
lightgreen
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palegreen1
aquamarine1a
darkslategray1
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indianreda
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thistle3
plum2
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khaki3
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indianred1
indianred1a
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lightcoral
palevioletred1
orchid2
orchid1
orange1
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pink1
plum1
gold1
lightgoldenrod2a
lightgoldenrod2b

navajowhite1
mistyrose1
thistle1
yellow1
lightgoldenrod1
khaki1
wheat1
cornsilk1
grey100
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in path(s):
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* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/WriterOutputStream.java
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* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/Cursor.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/ExecPty.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/ClosedException.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/package-info.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/ShutdownHooks.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/AttributedString.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/CursorSupport.java
*
 /jline-terminal-3-22-0-sources-jar/org/jline/utils/OSUtils.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/package-info.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/ExecHelper.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/MouseSupport.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/Attributes.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/InputStreamReader.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/MouseEvent.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/spi/Pty.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/WCWidth.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
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* /jline-terminal-3-22-0-sources-jar/org/jline/utils/Log.java
* /jline-terminal-3-22-0-sources-jar/org/jline/utils/Display.java
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* /jline-terminal-3-22-0-sources-jar/org/jline/utils/InfoCmp.java
* /jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPty.java

1.673 jline-remote-telnet 3.22.0

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* /jline-remote-telnet-3-22-0-sources-jar/org/jline/builtins/telnet/TelnetIO.java

* /jline-remote-telnet-3-22-0-sources-jar/org/jline/builtins/telnet/Connection.java
* /jline-remote-telnet-3-22-0-sources-jar/org/jline/builtins/telnet/ConnectionEvent.java
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1.674 jline-builtins 3.22.0

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* /jline-builtins-3-22-0-sources-jar/org/jline/builtins/SyntaxHighlighter.java
* /jline-builtins-3-22-0-sources-jar/org/jline/builtins/Source.java
* /jline-builtins-3-22-0-sources-jar/org/jline/builtins/Commands.java
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* /jline-builtins-3-22-0-sources-jar/org/jline/builtins/Completers.java
* /jline-builtins-3-22-0-sources-jar/org/jline/builtins/TTop.java
* /jline-builtins-3-22-0-sources-jar/org/jline/builtins/Styles.java
* /jline-builtins-3-22-0-sources-jar/org/jline/builtins/ConsoleOptionGetter.java
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1.675 jline-terminal-jansi 3.22.0

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* /jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java
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#
class = org.jline.terminal.impl.jansi.JansiTerminalProvider

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* /jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java

1.676 kustomize-kyaml 0.14.1

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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

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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.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
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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.toolchain:jetty-schemas

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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

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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

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

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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

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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

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* 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
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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

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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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.683 go.etcd.io-bbolt 1.3.7

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1.685 jersey 2.39.1

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

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

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
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    This
program is distributed in the hope that it will be useful, but
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Also add information on how to contact you by electronic and paper mail.

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

    Gnomovision version 69, Copyright (C) year name of author
    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
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
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signature of Ty Coon, 1 April 1989
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you do not wish to do so, delete this exception statement
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1.686 logback-core 1.2.12

1.686.1 Available under license :

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

/**
* Logback: the reliable, generic, fast and flexible logging framework.
* Copyright (C) 1999-2015, QOS.ch. All rights reserved.
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* This program and the accompanying materials are dual-licensed under
* either the terms of the Eclipse Public License v1.0 as published by
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*/

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1.693 kubernetes-model-gatewayapi 6.5.1

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* /zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java
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* /zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java
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-->
```

Found in path(s):
* /kubernetes-model-resource-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-resource/pom.xml

1.698 kubernetes-httpclient-okhttp 6.5.1

1.698.1 Available under license :

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Found in path(s):
* /kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientFactory.java
* /kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientBuilderImpl.java
* /kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpWebSocketImpl.java
*
 /kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientImpl.java
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#

io.fabric8.kubernetes.client.okhttp.OkHttpClientFactory

Found in path(s):
* /kubernetes-httpclient-okhttp-6-5-1-sources-jar/META-
INF/services/io.fabric8.kubernetes.client.http.HttpClient$Factory
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Found in path(s):
* /kubernetes-httpclient-okhttp-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-httpclient-okhttp/pom.xml

1.699 kubernetes-model-flowcontrol 6.5.1

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Found in path(s):
* /kubernetes-model-flowcontrol-6-5-1-jar/manifest.vm
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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 :: FlowControl
Bundle-SymbolicName: io.fabric8.kubernetes-model-flowcontrol
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.flowcontrol.v1alpha1;u
ses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind
,com.fasterxml.jackson.databind.annotation,io.fabric8.kubernetes.api.
builder,io.fabric8.kubernetes.api.model,io.fabric8.kubernetes.model.a
nnotation";version="6.5.1",io.fabric8.kubernetes.api.model.flowcontro
l.v1beta1;uses:="com.fasterxml.jackson.annotation,com.fasterxml.jacks
on.databind,com.fasterxml.jackson.databind.annotation,io.fabric8.kube
rnetes.api.builder,io.fabric8.kubernetes.api.model,io.fabric8.kuberne
tes.model.annotation";version="6.5.1",io.fabric8.kubernetes.api.model
.flowcontrol.v1beta2;uses:="com.fasterxml.jackson.annotation,com.fast
erxml.jackson.databind,com.fasterxml.jackson.databind.annotation,io.f
abric8.kubernetes.api.builder,io.fabric8.kubernetes.api.model,io.fabr
ic8.kubernetes.model.annotation";version="6.5.1",io.fabric8.kubernete
s.api.model.flowcontrol.v1beta3;uses:="com.fasterxml.jackson.annotati
on,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.anno
tation,io.fabric8.kubernetes.api.builder,io.fabric8.kubernetes.api.mo
del,io.fabric8.kubernetes.model.annotation";version="6.5.1"
Implementation-URL: http://fabric8.io/kubernetes-model-generator/kuber
netes-model-flowcontrol/
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-flowcontrol
Scm-Revision: ${buildNumber}
Scm-Url: http://github.com/fabric8io/kubernetes-client/kubernetes-mode
l-generator/kubernetes-model-flowcontrol/
Specification-Title: Fabric8 :: Kubernetes Model :: FlowControl
Specification-Vendor: Red Hat

Specification-Version: 6.5
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /kubernetes-model-flowcontrol-6-5-1-jar/META-INF/MANIFEST.MF
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Found in path(s):
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1.700 zookeeper 3.6.4

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Found in path(s):
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/BCFKSFileLoader.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/util/CircularBlockingQueue.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatcherMode.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/TxnLogEntry.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/PathParentIterator.java
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Found in path(s):
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/KeeperException.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/WrappedAuthenticationProvider.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/UnimplementedRequestProcessor.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ReferenceCountedACLCache.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LeaderElectionMXBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/metrics/Counter.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/Observer.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/ServerAuthenticationProvider.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ClientCnxn.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/WatchCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ServerCnxnFactory.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ServerMetrics.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/IOUtils.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/RemoveWatchesCommand.java
*

/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/AtomicFileWritingIdiom.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/SaslServerPrincipal.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/SessionTracker.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/ZKHostnameVerifier.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/DigestLoginModule.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/ConfigUtils.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ConnectionMXBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/DigestCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/SyncRequestProcessor.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/DataTreeBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumServerCallbackHandler.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/EnsembleAuthenticationProvider.java
*
/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ServerCnxn.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerMXBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/Quotas.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/Leader.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/NettyUtils.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ClientWatchManager.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/client/ConnectStringParser.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/persistence/FileTxnSnapLog.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/KerberosUtil.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/BlueThrottle.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/AuthUtil.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/persistence/SnapshotInfo.java
*
/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerShutdownHandler.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/SetTraceMaskCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/metrics/MetricsProviderLifeCycleException.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/CliCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/CliParseException.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/FileKeyStoreLoader.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerMaster.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZKDatabase.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerMain.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/AsyncCallback.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumZooKeeperServer.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/metric/SimpleCounter.java
*
/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/AddWatchCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumCnxManager.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/AdminServerFactory.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/NettyServerCnxn.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooTrace.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/CreateMode.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/CommitProcessor.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LocalPeerBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/SendAckRequestProcessor.java

* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/StatPrinter.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumPeer.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/SyncedLearnerTracker.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatcherOrBitSet.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerListenerImpl.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/DataTree.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ObserverBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/client/FourLetterWordMain.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/FinalRequestProcessor.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/PurgeTxnLog.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumStats.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/AclParser.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/FollowerMXBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumPeerConfig.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/SyncThrottleException.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/NettyServerCnxnFactory.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchManagerOptimized.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LeaderElectionBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerSyncThrottler.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/KerberosName.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/flexible/QuorumHierarchical.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/SetAclCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/DataNode.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LeaderSessionTracker.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/client/ZKClientConfig.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/VerifyingFileFactory.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/X509Util.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/DumbWatcher.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/TxnLogProposalIterator.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/BufferStats.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/jmx/ManagedUtil.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/util/ServiceUtils.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/persistence/Util.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/flexible/QuorumMaj.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/ReconfigCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ServerAdminClient.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/JettyAdminServer.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/OSMXBean.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/JKSFileLoader.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/StatResetCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/AdHash.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/metrics/impl/MetricsProviderBootstrap.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/RateLogger.java

* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/ObserverMaster.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/IPAuthenticationProvider.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/NetUtils.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/PrependableSocket.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/Watcher.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/RemotePeerMXBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/Version.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ResponseCache.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/ZxidUtils.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/metrics/Gauge.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/FollowerBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ClientCnxnSocketNIO.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/ServerBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/RuokCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ClientCnxnSocket.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/DeleteCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/JsonOutputter.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/persistence/SnapStream.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/auth/NullQuorumAuthLearner.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerSender.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/AckRequestProcessor.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/LearnerSessionTracker.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/AddWatchMode.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/CreateCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/NopCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/Vote.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/CnxnStatResetCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/GetCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/Election.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/persistence/FilePadding.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/ConfCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/FollowerZooKeeperServer.java
*
 /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/command/FourLetterCommands.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/KeyStoreLoader.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/Command.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/QuorumBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/JLineZNodeCompleter.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/ProviderRegistry.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/AuthenticationProvider.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/client/HostProvider.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/Environment.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/ClientX509Util.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ZooDefs.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/ServerMXBean.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/metrics/MetricsContext.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchManagerFactory.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/audit/AuditEvent.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/FollowerRequestProcessor.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/Shell.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/UpgradeableSessionTracker.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/auth/QuorumAuthServer.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/ReadOnlyZooKeeperServer.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/NIOServerCnxnFactory.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/metric/AvgMinMaxCounterSet.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/DigestWatcher.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/ZKTrustManager.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/persistence/TxnLogToolkit.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ZooKeeperMain.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/audit/AuditConstants.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/jmx/MBeanRegistry.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/ZooKeeper.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/FastLeaderElection.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/LsCommand.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/cli/VersionCommand.java
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* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/CommandResponse.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/Op.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchesReport.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/MultiOperationRecord.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchesSummary.java
* /zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/watch/WatchesPathReport.java
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1.701 kubernetes-client-api 6.5.1

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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/utils/IOHelpers.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/DefaultKubernetesClient.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ListVisitFromServerWritable.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Watchable.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/AnyNamespaceOperation.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/EphemeralContainersResource.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/FunctionCallable.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1StorageAPIGroupDSL.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/InOutCreateable.java
* /kubernetes-client-api-6-5-1-sources-
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/utils/TokenRefreshInterceptor.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/RbacAPIGroupDSL.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/KubernetesClientBuilder.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/OAuthTokenProvider.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/Interceptor.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Typeable.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/RequestConfig.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Gettable.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/ItemWritableOperation.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Replaceable.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/utils/ResourceCompare.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/DryRunable.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/WithRequestCallable.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Namespaceable.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/V1AuthenticationAPIGroupDSL.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/PodResource.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/WebSocketResponse.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/CreateOrDeleteable.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/HttpClient.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/HttpStatusMessage.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/NamespacedKubernetesClient.java
* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/StandardHttpClientBuilder.java
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/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/informers/ResourceEventHandler.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/Client.java
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*
/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/Resource.java
* /kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/V1beta1AdmissionRegistrationAPIGroupDSL.java
* /kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/V1Alpha1AuthenticationAPIGroupDSL.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/NetworkAPIGroupDSL.java
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jar/io/fabric8/kubernetes/client/V1Alpha1DynamicResourceAllocationAPIGroupDSL.java
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*
 /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/WritableOperation.java
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jar/io/fabric8/kubernetes/client/extended/leaderelection/resourcelock/ConfigMapLock.java
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* /kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/dsl/V1CertificatesAPIGroupDSL.java
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1.702 kubernetes-model-common 6.5.1

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/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/ShortNames.java
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jar/io/fabric8/kubernetes/model/jackson/JsonUnwrappedDeserializer.java
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jar/io/fabric8/kubernetes/model/jackson/SettableBeanPropertyDelegate.java
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1.703 sudo 1.8.31-1ubuntu1.5

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Jean-loup Gailly   Mark Adler
jloup@gzip.org   madler@alumni.caltech.edu
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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

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1.706 honnef-staticcheck 0.0.1-2019.2.3

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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1.707 profile 1.5.0

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1.708 jetty-security 9.4.51.v20230217

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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
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

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

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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1.709 libxml2 2.9.10+dfsg-5ubuntu0.20.04.6

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1.710 zstd 1.4.9

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1.711 jackson-module-blackbird 2.13.5

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1.712 x-oauth2 0.7.0

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src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
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src/gzip/inftrees.c
```

src/gzip/inftrees.h
src/gzip/infutil.c
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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                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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Found in path(s):

* /aopalliance-2-6-1-zip/aopalliance-2.6.1.rtf

1.731 prometheus-common 0.44.0

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1.732 logback-access 1.2.12

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# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
#
# It is intended for HSQL databases.


DROP TABLE access_event_header IF EXISTS;
```

```
DROP TABLE access_event IF EXISTS;

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 BIGINT NOT NULL IDENTITY);


CREATE TABLE access_event_header (
 event_id BIGINT NOT NULL,
 header_key  VARCHAR(254) NOT NULL,
 header_value LONGVARCHAR,
 PRIMARY KEY(event_id, header_key),
 FOREIGN KEY
 (event_id) REFERENCES access_event(event_id));
```

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#
# It is intended for MySQL databases. It has been tested on MySQL 5.5.31 with
# INNODB tables.


BEGIN;
DROP TABLE IF EXISTS access_event_header;
DROP TABLE IF EXISTS access_event;
COMMIT;

BEGIN;
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         BIGINT NOT NULL
 AUTO_INCREMENT PRIMARY KEY
 );
COMMIT;

BEGIN;
CREATE TABLE access_event_header
 (
  event_id      BIGINT 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)
 );
COMMIT;
```

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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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#
# It is intended for PostgreSQL databases.

DROP TABLE    access_event_exception;
DROP SEQUENCE access_event_id_seq;
DROP TABLE    access_event;

CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;

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          BIGINT DEFAULT
 nextval('access_event_id_seq') PRIMARY KEY
 );

CREATE TABLE access_event_header
(
  event_id       BIGINT 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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#
# It is intended for IBM DB2 databases.
#
# WARNING  WARNING WARNING  WARNING
# ================================
# This SQL script has not been tested on an actual DB2
# instance. It may contain errors or even invalid SQL
# statements.

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          INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
 );

CREATE TABLE access_event_header
 (
  event_id       INTEGER 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-1-2-12-sources-jar/ch/qos/logback/access/pattern/ElapsedSecondsConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/SessionIDConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/QueryStringConverter.java
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*/

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* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/boolex/JaninoEventEvaluator.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SocketNode.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/FullResponseConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/RequestLogRegistry.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/UrlCssBuilder.java
*
 /logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/AccessContext.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SMTPAppender.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/PeriodicStats.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/Util.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/AccessConstants.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/FullRequestConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/DefaultCssBuilder.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/AccessConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java
*
 /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RemoteHostConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestContentConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/HTMLLayout.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByDay.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/action/EvaluatorAction.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByWeek.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/PatternLayoutEncoder.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RemoteUserConverter.java
*
 /logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/JettyServerAdapter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/NAConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/IAccessEvent.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/tomcat/LogbackValve.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/CountingFilter.java

* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestCookieConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LocalPortConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java
*
 /logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeFilter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestURLConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatisticalView.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/StatusCodeConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/DateConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftAction.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java
*
 /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMonth.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/RequestLogImpl.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SSLSocketAppender.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByHour.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/JoranConfigurator.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMinute.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/AccessEvent.java
*
 /logback-access-1-2-12-sources-jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/action/ConfigurationAction.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestURIConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ContentLengthConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/URLEvaluator.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SocketAppender.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/ServerAdapter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftingAppender.java
*
 /logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/Util.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /logback-access-1-2-12-sources-jar/ch/qos/logback/access/PatternLayout.java
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```
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--
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-- 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-1-2-12-sources-jar/ch/qos/logback/access/db/script/oracle.sql

1.733 openssl 1.1.1f-1ubuntu2.19

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```
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* /j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/LoopTranslation.java
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* /j2objc-annotations-2-8-sources-jar/com/google/j2objc/annotations/Weak.java
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1.737 libssh 0.9.3-2ubuntu2.3

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src/bdf/bdfdrivr.c
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src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
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1.740 perl 5.30.0-9ubuntu0.4

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The End

Perl5 Metaconfig Units

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These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script to regenerate Porting/Glossary. You have to manually
edit
the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
  These are units that have to go first in the generated config_h.SH.
  A word of explanation: Configure and config_h.SH are generated from 'Units'
  (the *.U files). Files indicate dependencies (using make(1)), and
  Configure is built to follow those dependencies. However, config_h.SH
  is simply built by putting
 all the units in alphabetical order and
  extracting the relevant lines. (This could be fixed, I suppose, but
  it wasn't trivial the one time I looked.)
  The a_dvisory/ directory, then, is a place to put units that need
  to be early in config_h.SH. (Most units are self-contained
  and ought to be able to go anywhere. However, some things, like
  byteorder, need to have the #defines from multiarch available.)

acl/
  This is an old patch to begin to detect and use ACL (access
  control list) file protection schemes.

all/
  A folder that conveniently holds symbolic links to all the modules
  that are used to build the current Configure and config_h.SH.

compline/
  These are similar to the standard units, but I have modified them
  to have a more uniform compile command line, usually using the
  new Compile.U unit. (The ccflags.U unit is perl-specific since it
  mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place
  it is perl-specific.)

dist_patches/
   These are patches to dist that must be applied before it is built
  and installed. I have submitted these for inclusion in the
  regular dist distribution. They have already been applied
  to the ../dist-3.0at70b directory.

ebcdic/
  These are units that had to be specially modified to work under
  either EBCDIC or ASCII.

installdirs/
  These are units to handle perl's installation directories and
  related issues.

modified/
  These are modified versions of the standard units. Also included in
  this directory are new units that are clearly derived from existing
  units. I have submitted these for inclusion in the regular dist
  distribution.

nullified/
  These are null units that replace units in the standard
  distribution. Typically they are there because some part of the
  perl source accidentally uses a symbol that metaconfig thinks means we
  want the corresponding unit.

perl/
  These are specific to perl. Some
 are heavily derived from
  original dist units, and are marked as such. Others are original.

perl_patches/
  These are patches to the perl source. This directory
  should ordinarily be empty, but there may have been drift between
  the standard version of perl and the one associated with these
  units.

protos/
  These are units modified to use the new Hasproto.U or Protochk.U
  units to check for prototypes.

threads/
  These are specific to threading perl.

typedefs/
  These are standard units modified to use the modified Typedef.U
  unit to check for typedefs. (The modified Typdef.U includes a
  function to avoid unnecessary prompts if the typdef being searched
  for exists.)

Where appropriate, I submitted these units for inclusion into the
regular dist distribution. However, since dist is no longer actively
maintained, and the alternative is for *me* to actively maintain it,
the units just sit here.

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If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
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 free to ask.

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1.741 nghttp2 1.40.0-1ubuntu0.1

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.742 jersey-server 2.39.1

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1.747 openssh 8.2p1-4

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.755 util-linux 2.34-0.1ubuntu9.4

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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 License.

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

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

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 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
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during execution displays copyright notices, you must include the
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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)
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c) Accompany the work with a written offer, valid for at
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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 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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1.757 libnss-nis 2.31

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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.

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.

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4. You may copy and distribute the Library (or a portion or
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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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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
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1.758 glib 2.64.6-1~ubuntu20.04.6

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1.759 libcap 2.32-1ubuntu0.1

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.767 ncurses 6.2-0ubuntu2.1

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1.768 prometheus-procfs 0.10.1

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1.770 python-setuptools 68.0.0

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1.771 x-sync 0.3.0

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1.772 metrics-httpclient 4.2.19

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.httpclient
Build-Jdk-Spec: 11
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: 4.2.19
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="4.2.19"
Implementation-Title: Metrics Integration for Apache HttpClient

Implementation-Version: 4.2.19
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-4-2-19-jar/META-INF/MANIFEST.MF

1.773 prometheus-client 1.16.0

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Go support for Protocol Buffers - Google's data interchange format
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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.774 guava 32.1.1-jre

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

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1.776 netty-codec 4.1.94.Final

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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
* lengthAdjustment   = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* 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-4-1-94-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
*
 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
*
 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java

* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
*
 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
*
 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DateFormatter.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
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 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java

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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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/**
* 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
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
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 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java

* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/package-info.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
*
 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java

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 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/CodecException.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
*
 /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
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* /netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
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1.777 netty-transport-native-unix-common 4.1.94.Final

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* /netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java
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* /netty-transport-native-unix-common-4-1-94-final-sources-jar/netty_unix_buffer.c
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jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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* /netty-transport-native-unix-common-4-1-94-final-sources-jar/netty_unix_util.h
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jar/io/netty/channel/unix/SocketWritableByteChannel.java

* /netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Limits.java
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jar/io/netty/channel/unix/ServerDomainSocketChannel.java
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* /netty-transport-native-unix-common-4-1-94-final-sources-jar/netty_unix_filedescriptor.c
* /netty-transport-native-unix-common-4-1-94-final-sources-jar/netty_unix_filedescriptor.h
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jar/io/netty/channel/unix/DomainSocketChannelConfig.java
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1.778 netty-resolver 4.1.94.Final

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1.779 netty-handler 4.1.94.Final

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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
*
 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/address/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
*
 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
*
 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/flow/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
*
 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/IPPacket.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
*
 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java
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/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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/netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
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 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
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 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/stream/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
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 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslProvider.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
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/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemReader.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
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/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
*
 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
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 /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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1.780 netty-transport-classes-epoll 4.1.94.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.

   */
```

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* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.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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* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
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 /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollMode.java
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* /netty-transport-classes-epoll-4-1-94-final-sources-

jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
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jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
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jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/package-info.java
* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
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* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
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1.781 netty-transport 4.1.94.Final

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* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/pool/package-info.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
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* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/internal/package-info.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
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* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
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/netty-transport-4-1-94-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelId.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
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* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
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/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
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* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.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:
*

```
* <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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Found in path(s):
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java
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Found in path(s):
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
*
 /netty-transport-4-1-94-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/SelectStrategy.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java

* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java

1.782 netty 4.1.94.Final

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* /netty-common-4-1-94-final-sources-jar/io/netty/util/NetUtilSubstitutions.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/NetUtilInitializations.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
*
 /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/package-info.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/Hidden.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ObjectPool.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/MathUtil.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ByteProcessor.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/collection/LongObjectMap.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/collection/LongCollections.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java
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 /netty-common-4-1-94-final-sources-jar/io/netty/util/collection/CharObjectMap.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java
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*
 /netty-common-4-1-94-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java
*
 /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/AsyncMapping.java

* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/LongCounter.java
*
 /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/HashingStrategy.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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  </additionalOptions>
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   <goals>
    <goal>jar</goal>
   </goals>
  </execution>
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  </plugin>
 </plugins>
</build>

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  <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
 </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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  <distribution>repo</distribution>
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<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>
```

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 <prerequisites>
  <maven>3.5.0</maven>
 </prerequisites>

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  <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>
```

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* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
*

/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/IntSupplier.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/BooleanSupplier.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
*
/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/StringUtil.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
*
 /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FailedFuture.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/package-info.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/Attribute.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/Timeout.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/TimerTask.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/Constant.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/AttributeKey.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/IllegalReferenceCountException.java

* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/NetUtil.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/AttributeMap.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/CharsetUtil.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
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 /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PlatformDependent.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/package-info.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/AbstractConstant.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/HashedWheelTimer.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/Signal.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakHint.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/AsciiString.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/Mapping.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/IntegerHolder.java

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* /netty-common-4-1-94-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
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* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ConstantPool.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PlatformDependent0.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/PendingWrite.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/EmptyArrays.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
*
 /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/package-info.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/package-info.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeak.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakDetector.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakException.java
*
 /netty-common-4-1-94-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FutureListener.java

1.783 metrics 4.2.19

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1.787 metrics-jmx 4.2.19

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* /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/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/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

1.789 bouncy-castle 1.75

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* /dropwizard-logging-2-1-7-sources-jar/io/dropwizard/logging/ResilientOutputStreamBase.java

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1.811 metrics-jetty 4.2.19

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jetty9
Build-Jdk-Spec: 11
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: 4.2.19
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="4.2.19"
Implementation-Title: Metrics Integration for Jetty
 9.3 and higher
Implementation-Version: 4.2.19
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

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* /metrics-jetty9-4-2-19-jar/META-INF/MANIFEST.MF

1.812 metrics-logback 4.2.19

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.logback
Build-Jdk-Spec: 11
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: 4.2.19
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="4.2.19"
Implementation-Title: Metrics Integration for Logback
Implementation-Version: 4.2.19

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

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1.813 metrics-jersey2 4.2.19

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.jersey2
Build-Jdk-Spec: 11
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: 4.2.19
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="4.2.19"
Implementation-Title: Metrics Integration for Jersey 2.x
Implementation-Version: 4.2.19
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="[2.39,3)",org.glassfish.jersey.server.model;version="[2.39,3)",org
.glassfish.jersey.server.monitoring;version="[2.39,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

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1.814 maven-artifact 3.8.8

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1.819 dropwizard-client 2.1.7

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1.821 amqp-client 5.17.0

1.821.1 Available under license :

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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
PL/2.0/
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 5.17.0
Bnd-LastModified: 1679415883917
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
ional,com.fasterxml.jackson.core;version="[2.14,3)";resolution:=optio
nal,com.fasterxml.jackson.databind;version="[2.14,3)";resolution:=opt
ional,com.fasterxml.jackson.databind.node;version="[2.14,3)";resoluti
 on:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitm
q.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tool
s.json,com.rabbitmq.utility,io.micrometer.core.instrument;resolution:
=optional,io.opentelemetry.api;resolution:=optional,io.opentelemetry.
api.common;resolution:=optional,io.opentelemetry.api.metrics;resoluti
on:=optional,javax.naming,javax.naming.directory,javax.net,javax.net.
ssl,javax.security.auth.callback,javax.security.auth.x500,javax.secur
ity.sasl,org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
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Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,co
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lient.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbit
mq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instr
 ument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,java
x.net.ssl";version="5.17.0",com.rabbitmq.client.impl.nio;uses:="com.r
abbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.17.
0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.r
abbitmq.client.impl";version="5.17.0",com.rabbitmq.tools;version="5.1
7.0",com.rabbitmq.tools.json;version="5.17.0",com.rabbitmq.tools.json
rpc;uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,
com.rabbitmq.client";version="5.17.0",com.rabbitmq.utility;version="5
.17.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 5.17.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /amqp-client-5-17-0-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

/amqp-client-5-17-0-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches
/amqp-client-5-17-0-jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

Found in path(s):
* /bin/grep

1.822 metrics-graphite 4.2.19

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics.graphite
Build-Jdk-Spec: 11
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: 4.2.19
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="4.2.19"
Implementation-Title: Graphite Integration for Metrics
Implementation-Version: 4.2.19
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics
;version="[4.2,5)",com.rabbitmq.client;version="[5.17,6)",javax.net
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
* /metrics-graphite-4-2-19-jar/META-INF/MANIFEST.MF

1.823 dropwizard-metrics-graphite 2.1.7

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1.824 proto-otlp 1.0.0

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1.825 protobuf 1.31.0

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1.826 go-uber-org-multierr 1.6.0

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1.827 go.uber.org/atomi 1.7.0

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1.828 kustomize-api 0.13.5-0.20230601165947-6ce0bf390ce3

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* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha512.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha256.kt
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* /okio-3-5-0-sources-1-jar/nativeMain/okio/PosixVariant.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/HashingSink.kt
* /okio-3-5-0-sources-1-jar/appleMain/okio/ApplePosixVariant.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/Path.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/FileSystem.kt
*
 /okio-3-5-0-sources-1-jar/commonMain/okio/ForwardingFileSystem.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/HashingSource.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/FileSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/HashingSource.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/FileMetadata.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/ExperimentalFileSystem.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/FileSink.kt
* /okio-3-5-0-sources-1-jar/unixMain/okio/UnixPosixVariant.kt
* /okio-3-5-0-sources-1-jar/nativeMain/okio/PosixFileSystem.kt

* /okio-3-5-0-sources-1-jar/nativeMain/okio/Cinterop.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/Path.kt
* /okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Hmac.kt
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* /okio-3-5-0-sources-1-jar/commonMain/okio/Segment.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/SegmentPool.kt
* /okio-3-5-0-sources-1-jar/commonMain/okio/ForwardingSource.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/SegmentPool.kt
* /okio-3-5-0-sources-1-jar/nonJvmMain/okio/ForwardingSource.kt

1.832 elfutils 0.176-1.1ubuntu0.1

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1.834 genproto-googleapis-api 0.0.0-20230822172742-b8732ec3820d

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1.835 x-text 0.13.0

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1.836 apr-util 1.6.1-4ubuntu2.2

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1.837 jetty 9.4.52.v20230823

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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

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* java.sun.security.ssl

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

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org.eclipse.jetty.toolchain:jetty-schemas

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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
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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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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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1.839 jetty-servlets 9.4.52.v20230823

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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
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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 org.apache.tomcat:tomcat-jsp-api
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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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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
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* 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
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* 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

The following artifacts are ASL2 licensed.

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

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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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1.843 cyphar-filepath-securejoin 0.2.4

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1.844 bind 9.16.1-0ubuntu2.16

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1.845 openssl 1.1.1w

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1.846 go-restful 3.11.0

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1.848 google-golang-org-genproto 0.0.0-20200513103714-09dca8ec2884

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1.849 opencontainers-image-spec 1.1.0-rc5

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1.850 google-golang-org-genproto 0.0.0-20230822172742-b8732ec3820d

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1.851 glibc 2.31-0ubuntu9.12

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1.852 libx11 1.6.9-2ubuntu1.6

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1.855 opentelemetry-collector-contrib 1.19.0

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

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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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* 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

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

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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

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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

Assorted

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1.865 go-restful 3.9.0

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1.866 openjdk-jre 1.8.0u382

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- doc/example/pcsc_demo.c
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1.868 libcap 2.32

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1.869 httpcomponents-client 4.3.2

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1.871 jdk-zulu 8.72.0.17

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1.872 miekg-dns 1.1.9

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1.873 x-term 0.13.0

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1.874 x-net 0.17.0

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1.875 oras.land-oras-go 1.2.4

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on:
 push:
  branches:
   - main
   - release-*
 pull_request:
  branches:
   - main
   - release-*

```
permissions:
 contents: write
 pull-requests: write

jobs:
 check-license:
  runs-on: ubuntu-latest
  steps:
   - name: Checkout
     uses: actions/checkout@v4
   - name: Check license header
     uses: apache/skywalking-eyes/header@v0.5.0
     with:
       mode:
 check
       config: .github/licenserc.yml
   - name: Check dependencies license
     uses: apache/skywalking-eyes/dependency@v0.5.0
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```

1.876 json-java 20231013

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Written by: Philip Hazel
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1.878 urllib3 1.26.18

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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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(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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* 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

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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-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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org.eclipse.jetty.toolchain:jetty-schemas

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1.881 python-pip 20.0.2

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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

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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	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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year, the PythonLabs team moved to Digital Creations (now Zope
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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
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.882 netbase 6.1

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1.883 python-setuptools 44.0.0

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1.884 pycryptodome 3.14.1

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1.885 vcs 1.13.3

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1.887 python-ldap 3.4.0

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1.888 jetty 9.4.52.v20230823

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* 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
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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
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
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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

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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

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1.890 grpc-go 1.59.0

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1.891 contrib-instrumentation-net-http-otelhttp 0.45.0

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1.893 grpc-go 1.58.3

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1.894 jetty-util 9.4.53.v20231009

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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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1.895 jetty 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

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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

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.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
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1.897 openssl 1.1.1f-1ubuntu2.20

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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

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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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

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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1.900 json-logging 1.3.0

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package v2_3

// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.3 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //   on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text

```
// Cardinality: conditional (mandatory, one) if there is a
//              License Identifier assigned
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//              on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//              is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //   on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //   License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //   on SPDX License List
 LicenseName string `json:"name,omitempty"`

```
// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//              is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,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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https://github.com/golang/protobuf

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

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localtime.go, localtime_test.go:

Originals:
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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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
slave/kpropd_rpc.c
slave/kproplog.c

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Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test
 coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield

<https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>

* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer
<asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded
requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>

 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
 * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai
 (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.905 procps 3.3.16-1ubuntu2.4

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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 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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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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3.1.3	3.1.2	2010	PSF	yes
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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
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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	Year	Owner	GPL-

	from		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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(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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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
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1.909 go-md2man 2.0.3

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

<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it
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Version 3, 29 June 2007

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

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

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to

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section 10
makes it unnecessary.

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"aggregate" if the compilation and its resulting copyright are not
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(including a physical distribution medium), accompanied by the
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customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
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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.

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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) that supports equivalent copying facilities, provided you maintain 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.

A separable portion of the object code, whose source code is excluded from the Corresponding Source
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1.920 nghttp2 1.40.0-1ubuntu0.2

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.921 contrib-instrumentation-google.golang.org-grpc-otelgrpc 0.46.0

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1.922 perl 5.30.0-9ubuntu0.5

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?MAKE:i_quadmath: Inhdr
?MAKE: -pick add $@ %<
?S:i_quadmath:
?S: This variable conditionally defines I_QUADMATH, which indicates
?S: to the C program that it should include <quadmath.h>.
?S:.
?C:I_QUADMATH:
?C: This symbol, if defined, indicates that <quadmath.h> exists and
?C: should be included.
?C:.
?H:#$i_quadmath I_QUADMATH /**/
?H:.
?LINT:set i_quadmath
: see if this is a quadmath.h system
set quadmath.h i_quadmath
eval $inhdr

Found in path(s):
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?RCS:
?MAKE:d_strtold_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtold_l.U
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?RCS:
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system

```
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fenv.U
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?RCS:
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH  /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_acosh.U
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?RCS:
?MAKE:d_rint: Inlibc
?MAKE: -pick add $@ %<
?S:d_rint:
?S: This variable conditionally defines the HAS_RINT symbol, which
?S: indicates to the C program that the rint() routine is available.
?S:.
?C:HAS_RINT:
?C: This symbol, if defined, indicates that the rint routine is
?C: available to return the nearest integral value to x as double
?C: using the current rounding mode.
?C:.
?H:#$d_rint HAS_RINT  /**/
?H:.
?LINT:set d_rint
```

: see if rint exists
set rint d_rint
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_rint.U
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?RCS: $Id: i_sysutsname.U,v $
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?RCS:
?MAKE:i_sysutsname: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysutsname:
?S: This variable conditionally defines the I_SYSUTSNAME symbol,
?S: and indicates whether a C program should include <sys/utsname.h>.
?S:.
?C:I_SYSUTSNAME:
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and
?C: should be included.
?C:.
?H:#$i_sysutsname I_SYSUTSNAME /**/
?H:.
?LINT:set i_sysutsname
: see if this is a sys/utsname.h system
set sys/utsname.h i_sysutsname
eval $inhdr

Found in path(s):
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?MAKE:i_stdint: Inhdr
?MAKE: -pick add $@ %<
?S:i_stdint:
?S: This variable conditionally defines the I_STDINT symbol, which
?S: indicates to the C program that <stdint.h> exists and should
?S: be included.
?S:.
?C:I_STDINT:
?C: This symbol, if defined, indicates that <stdint.h> exists and

?C: should be included.
?C:.
?H:#$i_stdint I_STDINT /**/
?H:.
?LINT:set i_stdint
: see if stdint is available
set stdint.h i_stdint
eval $inhdr

Found in path(s):
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?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U
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/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
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```
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C
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?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR  /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

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?MAKE:d_hypot: Inlibc
?MAKE: -pick add $@ %<
?S:d_hypot:
```

?S: This variable conditionally defines HAS_HYPOT if hypot is available
?S: for numerically stable hypotenuse function.
?S:.
?C:HAS_HYPOT:
?C: This symbol, if defined, indicates that the hypot routine is
?C: available to do the hypotenuse function.
?C:.
?H:#$d_hypot HAS_HYPOT /**/
?H:.
?LINT:set d_hypot
: see if hypot exists
set hypot d_hypot
eval $inlibc

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?MAKE:d_isfinitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_isfinitel:
?S: This variable conditionally defines the HAS_ISFINITEL symbol, which
?S: indicates to the C program that the isfinitel() routine is available.
?S:.
?C:HAS_ISFINITEL:
?C: This symbol, if defined, indicates that the isfinitel routine is
?C: available to check whether a long double is finite.
?C: (non-infinity non-NaN).
?C:.
?H:#$d_isfinitel HAS_ISFINITEL /**/
?H:.
?LINT:set d_isfinitel
: see if isfinitel exists
set isfinitel d_isfinitel
eval $inlibc

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?MAKE:d_sockatmark: Inlibc
?MAKE: -pick add $@ %<
?S:d_sockatmark:
?S: This variable conditionally defines the HAS_SOCKATMARK symbol, which
?S: indicates to the C program that the sockatmark() routine is available.
?S:.
?C:HAS_SOCKATMARK:
?C: This symbol, if defined, indicates that the sockatmark routine is
?C: available to test whether a socket is at the out-of-band mark.
?C:.
?H:#$d_sockatmark HAS_SOCKATMARK  /**/
?H:.
?LINT:set d_sockatmark
: see if sockatmark exists
set sockatmark d_sockatmark
eval $inlibc

Found in path(s):
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?MAKE:d_truncl: Inlibc
?MAKE: -pick add $@ %<
?S:d_truncl:
?S: This variable conditionally defines the HAS_TRUNCL symbol, which
?S: indicates to the C program that the truncl() routine is available
?S: to round long doubles towards zero. If copysignl is also present,
?S: we can emulate modfl.
?S:.
?C:HAS_TRUNCL :
?C: This symbol, if defined, indicates that the truncl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_truncl HAS_TRUNCL  /**/
?H:.
?LINT:set d_truncl
: see if truncl exists
set truncl d_truncl
eval $inlibc
```

Found in path(s):
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?MAKE:d_lrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrint:
?S: This variable conditionally defines the HAS_LRINT symbol, which
?S: indicates to the C program that the lrint() routine is available
?S: to return the integral value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINT:
?C: This symbol, if defined, indicates that the lrint routine is
?C: available to return the integral value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrint HAS_LRINT /**/
?H:.
?LINT:set d_lrint
: see if lrint exists
set lrint d_lrint
eval $inlibc

Found in path(s):
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?RCS:
?MAKE:d_lroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lroundl:
?S: This variable conditionally defines the HAS_LROUNDL symbol, which
?S: indicates to the C program that the lroundl() routine is available
?S: to return the integral value nearest to x away from zero.
?S:.
?C:HAS_LROUNDL:
?C: This symbol, if defined, indicates that the lroundl routine is
?C: available to return the nearest integral value away from zero of
?C: the long double argument value.
?C:.
?H:#$d_lroundl HAS_LROUNDL /**/

?H:.
?LINT:set d_lroundl
: see if lroundl exists
set lroundl d_lroundl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lroundl.U
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?RCS:
?MAKE:d_towupper: Inlibc
?MAKE: -pick add $@ %<
?S:d_towupper:
?S: This variable conditionally defines the HAS_TOWUPPER symbol, which
?S: indicates to the C program that the towupper() routine is available.
?S:.
?C:HAS_TOWUPPER:
?C: This symbol, if defined, indicates that the towupper () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towupper HAS_TOWUPPER /**/
?H:.
?LINT:set d_towupper
: see if towupper exists
set towupper d_towupper
eval $inlibc

Found in path(s):
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?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:

?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setproctitle.U
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strnlen: Inlibc
?MAKE: -pick add $@ %<
?S:d_strnlen:
?S: This variable conditionally defines the HAS_STRNLEN symbol, which
?S: indicates to the C program that the strnlen () routine is available.
?S:.
?C:HAS_STRNLEN:
?C: This symbol, if defined, indicates that the strnlen () routine is
?C: available to check the length of a string up to a maximum.
?C:.
?H:#$d_strnlen HAS_STRNLEN /**/
?H:.
?LINT:set d_strnlen
: see if strnlen exists
set strnlen d_strnlen
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strnlen.U
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?RCS: $Id: i_shadow.U,v $

```
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW  /**/
?H:.
?LINT:set i_shadow
: see if this is a shadow.h system
set shadow.h i_shadow
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_shadow.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
?C: available to get the floating point rounding mode.
?C:.
?H:#$d_fpgetround HAS_FPGETROUND  /**/
?H:.
?LINT:set d_fpgetround
: see if fpgetround exists
set fpgetround d_fpgetround
eval $inlibc
```

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fpgetround.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS  /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp_class.U
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?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND /**/
?H:.
?LINT:set d_lround
: see if lround exists
set lround d_lround
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lround.U
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?RCS:
?MAKE:d_inetntop: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetntop:
?S: This variable conditionally defines the HAS_INETNTOP symbol,
?S: which indicates to the C program that the inet_ntop() function
?S: is available.
?S:.
?C:HAS_INETNTOP:
?C: This symbol, if defined, indicates that the inet_ntop() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetntop HAS_INETNTOP /**/

?H:.
?LINT:set d_inetntop
: see if inet_ntop exists
set inet_ntop d_inetntop
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetntop.U
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?RCS:
?MAKE:d_lgamma_r: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma_r:
?S: This variable conditionally defines the HAS_LGAMMA_R symbol, which
?S: indicates to the C program that the lgamma_r() routine is available
?S: for the log gamma function, without using the global signgam variable.
?S:.
?C:HAS_LGAMMA_R:
?C: This symbol, if defined, indicates that the lgamma_r routine is
?C: available to do the log gamma function without using the global
?C: signgam variable.
?C:.
?H:#$d_lgamma_r HAS_LGAMMA_R /**/
?H:.
?LINT:set d_lgamma_r
: see if lgamma_r exists
set lgamma_r d_lgamma_r
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma_r.U
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?RCS:
?MAKE:d_ualarm: Inlibc
?MAKE: -pick add $@ %<
?S:d_ualarm:
?S: This variable conditionally defines the HAS_UALARM symbol, which
?S: indicates to the C program that the ualarm() routine is available.

```
?S:.
?C:HAS_UALARM:
?C: This symbol, if defined, indicates that the ualarm routine is
?C: available to do alarms with microsecond granularity.
?C:.
?H:#$d_ualarm HAS_UALARM  /**/
?H:.
?LINT:set d_ualarm
: see if ualarm exists
set ualarm d_ualarm
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ualarm.U
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```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Nothing.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_ilogb: Inlibc
?MAKE: -pick add $@ %<
?S:d_ilogb:
?S: This variable conditionally defines the HAS_ILOGB symbol, which
?S: indicates to the C program that the ilogb() routine is available
```

?S: for extracting the exponent of double x as a signed integer.
?S:.
?C:HAS_ILOGB:
?C: This symbol, if defined, indicates that the ilogb routine is
?C: available to get integer exponent of a floating-point value.
?C:.
?H:#$d_ilogb HAS_ILOGB /**/
?H:.
?LINT:set d_ilogb
: see if ilogb exists
set ilogb d_ilogb
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U
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?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdtemp.U
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?RCS: $Id: i_bfd.U,v $
?RCS:

```
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?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD  /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_bfd.U
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```
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?RCS:
?MAKE:d_remquo: Inlibc
?MAKE: -pick add $@ %<
?S:d_remquo:
?S: This variable conditionally defines the HAS_REMQUO symbol, which
?S: indicates to the C program that the remquo() routine is available.
?S:.
?C:HAS_REMQUO:
?C: This symbol, if defined, indicates that the remquo routine is
?C: available to return the remainder and part of quotient.
?C:.
?H:#$d_remquo HAS_REMQUO  /**/
?H:.
?LINT:set d_remquo
: see if remquo exists
set remquo d_remquo
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remquo.U

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?RCS:
?MAKE:d_finite: Inlibc
?MAKE: -pick add $@ %<
?S:d_finite:
?S: This variable conditionally defines the HAS_FINITE symbol, which
?S: indicates to the C program that the finite() routine is available.
?S:.
?C:HAS_FINITE:
?C: This symbol, if defined, indicates that the finite routine is
?C: available to check whether a double is finite (non-infinity non-NaN).
?C:.
?H:#$d_finite HAS_FINITE /**/
?H:.
?LINT:set d_finite
: see if finite exists
set finite d_finite
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finite.U
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?RCS:
?MAKE:d_copysign: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysign:
?S: This variable conditionally defines the HAS_COPYSIGN symbol, which
?S: indicates to the C program that the copysign() routine is available.
?S:.
?C:HAS_COPYSIGN:
?C: This symbol, if defined, indicates that the copysign routine is
?C: available to do the copysign function.
?C:.
?H:#$d_copysign HAS_COPYSIGN /**/

?H:.
?LINT:set d_copysign
: see if copysign exists
set copysign d_copysign
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysign.U
No license file was found, but licenses were detected in source scan.

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?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD /**/
?H:.
?LINT:set d_strtold
: see if strtold exists
set strtold d_strtold
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtold.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysmount.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmount: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmount:

?S: This variable conditionally defines the I_SYSMOUNT symbol,
?S: and indicates whether a C program should include <sys/mount.h>.
?S:.
?C:I_SYS_MOUNT:
?C: This symbol, if defined, indicates that <sys/mount.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmount I_SYS_MOUNT /**/
?H:.
?LINT:set i_sysmount
: see if this is a sys/mount.h system
set sys/mount.h i_sysmount
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmount.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_sysuio.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysuio: Inhdr
?MAKE: -pick add $@ %<
?S:i_sysuio:
?S: This variable conditionally defines the I_SYSUIO symbol, and indicates
?S: whether a C program should include <sys/uio.h>.
?S:.
?C:I_SYSUIO:
?C: This symbol, if defined, indicates that <sys/uio.h> exists and
?C: should be included.
?C:.
?H:#$i_sysuio I_SYSUIO /**/
?H:.
?LINT:set i_sysuio
: see if this is a sys/uio.h system
set sys/uio.h i_sysuio
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_sysuio.U
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```
?RCS:
?MAKE:d_fdim: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdim:
?S: This variable conditionally defines the HAS_FDIM symbol, which
?S: indicates to the C program that the fdim() routine is available.
?S:.
?C:HAS_FDIM:
?C: This symbol, if defined, indicates that the fdim routine is
?C: available to do the positive difference function.
?C:.
?H:#$d_fdim HAS_FDIM  /**/
?H:.
?LINT:set d_fdim
: see if fdim exists
set fdim d_fdim
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdim.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_tgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_tgamma:
?S: This variable conditionally defines the HAS_TGAMMA symbol, which
?S: indicates to the C program that the tgamma() routine is available
?S: for the gamma function.  See also d_lgamma.
?S:.
?C:HAS_TGAMMA:
?C: This symbol, if defined, indicates that the tgamma routine is
?C: available to do the gamma function. See also HAS_LGAMMA.
?C:.
?H:#$d_tgamma HAS_TGAMMA  /**/
?H:.
?LINT:set d_tgamma
: see if tgamma exists
set tgamma d_tgamma
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_tgamma.U
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```
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```

?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atanh: Inlibc
?MAKE: -pick add $@ %<
?S:d_atanh:
?S: This variable conditionally defines the HAS_ATANH symbol, which
?S: indicates to the C program that the atanh() routine is available.
?S:.
?C:HAS_ATANH:
?C: This symbol, if defined, indicates that the atanh routine is
?C: available to do the inverse hyperbolic tangent function.
?C:.
?H:#$d_atanh HAS_ATANH /**/
?H:.
?LINT:set d_atanh
: see if atanh exists
set atanh d_atanh
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_atanh.U
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?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atolf.U
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?RCS:
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.U
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?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.

```
?H:#$d_fstatfs HAS_FSTATFS  /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fstatfs.U
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```
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?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL  /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_finitel.U
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```
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?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
```

?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER /**/
?H:.
?LINT:set d_nextafter
: see if nextafter exists
set nextafter d_nextafter
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nextafter.U
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?RCS:
?MAKE:d_erfc: Inlibc
?MAKE: -pick add $@ %<
?S:d_erfc:
?S: This variable conditionally defines the HAS_ERFC symbol, which
?S: indicates to the C program that the erfc() routine is available.
?S:.
?C:HAS_ERFC:
?C: This symbol, if defined, indicates that the erfc routine is
?C: available to do the complementary error function.
?C:.
?H:#$d_erfc HAS_ERFC /**/
?H:.
?LINT:set d_erfc
: see if erfc exists
set erfc d_erfc
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erfc.U
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?RCS:
?MAKE:d_writev: Inlibc
?MAKE: -pick add $@ %<
?S:d_writev:
?S: This variable conditionally defines the HAS_WRITEV symbol, which
?S: indicates to the C program that the writev() routine is available.
?S:.
?C:HAS_WRITEV:
?C: This symbol, if defined, indicates that the writev routine is
?C: available to do scatter writes.
?C:.
?H:#$d_writev HAS_WRITEV /**/
?H:.
?LINT:set d_writev
: see if writev exists
set writev d_writev
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_writev.U
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?RCS:
?MAKE:d_nexttoward: Inlibc
?MAKE: -pick add $@ %<
?S:d_nexttoward:
?S: This variable conditionally defines HAS_NEXTTOWARD if nexttoward()
?S: is available to return the next machine representable long double from
?S: x in direction y.
?S:.
?C:HAS_NEXTTOWARD:
?C: This symbol, if defined, indicates that the nexttoward routine is
?C: available to return the next machine representable long double from
?C: x in direction y.
?C:.
?H:#$d_nexttoward HAS_NEXTTOWARD /**/
?H:.
?LINT:set d_nexttoward
: see if nexttoward exists
set nexttoward d_nexttoward
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nexttoward.U
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```
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?RCS:
?MAKE:d_getmnt: Inlibc
?MAKE: -pick add $@ %<
?S:d_getmnt:
?S: This variable conditionally defines the HAS_GETMNT symbol, which
?S: indicates to the C program that the getmnt() routine is available
?S: to retrieve one or more mount info blocks by filename.
?S:.
?C:HAS_GETMNT:
?C: This symbol, if defined, indicates that the getmnt routine is
?C: available to get filesystem mount info by filename.
?C:.
?H:#$d_getmnt HAS_GETMNT  /**/
?H:.
?LINT:set d_getmnt
: see if getmnt exists
set getmnt d_getmnt
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getmnt.U
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isinfl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isinfl:
?S: This variable conditionally defines the HAS_ISINFL symbol, which
?S: indicates to the C program that the isinfl() routine is available.
?S:.
?C:HAS_ISINFL:
?C: This symbol, if defined, indicates that the isinfl routine is
?C: available to check whether a long double is an infinity.
?C:.
?H:#$d_isinfl HAS_ISINFL  /**/
?H:.
```

?LINT:set d_isinfl
: see if isinfl exists
set isinfl d_isinfl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isinfl.U
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?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtoq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtoq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ /**/
?H:.
?LINT:set d_strtoq
: see if strtoq exists
set strtoq d_strtoq
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strtoq.U
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?RCS: $Id: i_sysmode.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,

?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
: see if this is a sys/mode.h system
set sys/mode.h i_sysmode
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysmode.U
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?RCS:
?MAKE:d_getaddrinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getaddrinfo:
?S: This variable conditionally defines the HAS_GETADDRINFO symbol,
?S: which indicates to the C program that the getaddrinfo() function
?S: is available.
?S:.
?C:HAS_GETADDRINFO:
?C: This symbol, if defined, indicates that the getaddrinfo() function
?C: is available for use.
?C:.
?H:#$d_getaddrinfo HAS_GETADDRINFO /**/
?H:.
?LINT:set d_getaddrinfo
: see if getaddrinfo exists
set getaddrinfo d_getaddrinfo
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getaddrinfo.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:

```
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?RCS:
?MAKE:d_hasmntopt: Inlibc
?MAKE: -pick add $@ %<
?S:d_hasmntopt:
?S: This variable conditionally defines the HAS_HASMNTOPT symbol, which
?S: indicates to the C program that the hasmntopt() routine is available
?S: to query the mount options of file systems.
?S:.
?C:HAS_HASMNTOPT:
?C: This symbol, if defined, indicates that the hasmntopt routine is
?C: available to query the mount options of file systems.
?C:.
?H:#$d_hasmntopt HAS_HASMNTOPT  /**/
?H:.
?LINT:set d_hasmntopt
: see if hasmntopt exists
set hasmntopt d_hasmntopt
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_hasmntopt.U
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?RCS: $Id: i_mntent.U,v $
?RCS:
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?RCS:
?MAKE:i_mntent: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_mntent:
?S: This variable conditionally defines the I_MNTENT symbol, and indicates
?S: whether a C program should include <mntent.h>.
?S:.
?C:I_MNTENT:
?C: This symbol, if defined, indicates that <mntent.h> exists and
?C: should be included.
?C:.
?H:#$i_mntent I_MNTENT  /**/
?H:.
?LINT:set i_mntent
: see if this is a mntent.h system
```

```
set mntent.h i_mntent
eval $inhdr
```

Found in path(s):
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```
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?RCS:
?MAKE:d_fmax: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmax:
?S: This variable conditionally defines the HAS_FMAX symbol, which
?S: indicates to the C program that the fmax() routine is available.
?S:.
?C:HAS_FMAX:
?C: This symbol, if defined, indicates that the fmax routine is
?C: available to do the maximum function.
?C:.
?H:#$d_fmax HAS_FMAX  /**/
?H:.
?LINT:set d_fmax
: see if fmax exists
set fmax d_fmax
eval $inlibc
```

Found in path(s):
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```
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?RCS:
?MAKE:d_unordered: Inlibc
?MAKE: -pick add $@ %<
?S:d_unordered:
?S: This variable conditionally defines the HAS_UNORDERED symbol, which
?S: indicates to the C program that the unordered() routine is available.
?S:.
?C:HAS_UNORDERED:
?C: This symbol, if defined, indicates that the unordered routine is
?C: available to check whether two doubles are unordered
?C: (effectively: whether either of them is NaN)
```

?C:.
?H:#$d_unordered HAS_UNORDERED /**/
?H:.
?LINT:set d_unordered
: see if unordered exists
set unordered d_unordered
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unordered.U
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?RCS:
?MAKE:d_strftime: Inlibc
?MAKE: -pick add $@ %<
?S:d_strftime:
?S: This variable conditionally defines the HAS_STRFTIME symbol, which
?S: indicates to the C program that the strftime() routine is available.
?S:.
?C:HAS_STRFTIME:
?C: This symbol, if defined, indicates that the strftime routine is
?C: available to do time formatting.
?C:.
?H:#$d_strftime HAS_STRFTIME /**/
?H:.
?LINT:set d_strftime
: see if strftime exists
set strftime d_strftime
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_strftime.U
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?RCS:
?MAKE:d_readv: Inlibc

?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads. You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U
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?RCS: $Id: i_socks.U,v $
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U

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```
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?RCS:
?MAKE:d_frexpl: Inlibc
?MAKE: -pick add $@ %<
?S:d_frexpl:
?S: This variable conditionally defines the HAS_FREXPL symbol, which
?S: indicates to the C program that the frexpl() routine is available.
?S:.
?C:HAS_FREXPL:
?C: This symbol, if defined, indicates that the frexpl routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexpl HAS_FREXPL  /**/
?H:.
?LINT:set d_frexpl
: see if frexpl exists
set frexpl d_frexpl
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_frexpl.U
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```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
```

?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U
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?RCS:
?MAKE:d_eaccess: Inlibc
?MAKE: -pick add $@ %<
?S:d_eaccess:
?S: This variable conditionally defines the HAS_EACCESS symbol, which
?S: indicates to the C program that the eaccess() routine is available.
?S:.
?C:HAS_EACCESS :
?C: This symbol, if defined, indicates that the eaccess routine is
?C: available to do extended access checks.
?C:.
?H:#$d_eaccess HAS_EACCESS /**/
?H:.
?LINT:set d_eaccess
: see if eaccess exists
set eaccess d_eaccess
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_eaccess.U
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?RCS:
?MAKE:d_exp2: Inlibc
?MAKE: -pick add $@ %<
?S:d_exp2:
?S: This variable conditionally defines the HAS_EXP2 symbol, which
?S: indicates to the C program that the exp2() routine is available.
?S:.
?C:HAS_EXP2:
?C: This symbol, if defined, indicates that the exp2 routine is
?C: available to do the 2**x function.

?C:.
?H:#$d_exp2 HAS_EXP2 /**/
?H:.
?LINT:set d_exp2
: see if exp2 exists
set exp2 d_exp2
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_exp2.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_libutil.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_sqrtl: Inlibc

?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL /**/
?H:.
?LINT:set d_sqrtl
: see if sqrtl exists
set sqrtl d_sqrtl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sqrtl.U
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?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fdclose: Inlibc
?MAKE: -pick add $@ %<
?S:d_fdclose:
?S: This variable conditionally defines the HAS_FDCLOSE symbol, which
?S: indicates to the C program that the fdclose() routine is available.
?S:.
?C:HAS_FDCLOSE:
?C: This symbol, if defined, indicates that the fdclose routine is
?C: available to free a FILE structure without closing the underlying
?C: file descriptor. This function appeared in FreeBSD 10.2.
?C:.
?H:#$d_fdclose HAS_FDCLOSE /**/
?H:.
?LINT:set d_fdclose
: see if fdclose exists
set fdclose d_fdclose
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fdclose.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_fp.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi

```
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp: Inhdr
?MAKE: -pick add $@ %<
?S:i_fp:
?S: This variable conditionally defines the I_FP symbol, and indicates
?S: whether a C program should include <fp.h>.
?S:.
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP  /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD  /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
```

```
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getcwd.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
'') full_ar=$ar ;;
esac
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc_ar.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_round: Inlibc
?MAKE: -pick add $@ %<
?S:d_round:
?S: This variable conditionally defines the HAS_ROUND symbol, which
?S: indicates to the C program that the round() routine is available.
?S:.
?C:HAS_ROUND:
?C: This symbol, if defined, indicates that the round routine is
?C: available to round to nearest integer, away from zero.
?C:.
?H:#$d_round HAS_ROUND  /**/
?H:.
```

?LINT:set d_round
: see if round exists
set round d_round
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_round.U
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?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_isnanl.U
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?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:

?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_logb.U
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?RCS:
?MAKE:d_fmin: Inlibc
?MAKE: -pick add $@ %<
?S:d_fmin:
?S: This variable conditionally defines the HAS_FMIN symbol, which
?S: indicates to the C program that the fmin() routine is available.
?S:.
?C:HAS_FMIN:
?C: This symbol, if defined, indicates that the fmin routine is
?C: available to do the minimum function.
?C:.
?H:#$d_fmin HAS_FMIN /**/
?H:.
?LINT:set d_fmin
: see if fmin exists
set fmin d_fmin
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fmin.U
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* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB  /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i_netdb.U
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_recvmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_recvmsg:
?S: This variable conditionally defines the HAS_RECVMSG symbol, which
?S: indicates to the C program that the recvmsg() routine is available.
?S:.
?C:HAS_RECVMSG:
?C: This symbol, if defined, indicates that the recvmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_recvmsg HAS_RECVMSG  /**/
?H:.
?LINT:set d_recvmsg
: see if recvmsg exists
set recvmsg d_recvmsg
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_recvmsg.U
No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_unsetenv.U
No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_qgcvt: Inlibc
?MAKE: -pick add $@ %<
?S:d_qgcvt:
?S: This variable conditionally defines the HAS_QGCVT symbol, which
?S: indicates to the C program that the qgcvt() routine is available.
?S:.
?C:HAS_QGCVT:
?C: This symbol, if defined, indicates that the qgcvt routine is
?C: available to convert long doubles ("quad doubles") to strings.

?C: This is a low-level routine hopefully faster than sprintf.
?C:.
?H:#$d_qgcvt HAS_QGCVT /**/
?H:.
?LINT:set d_qgcvt
: see if qgcvt exists
set qgcvt d_qgcvt
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_qgcvt.U
No license file was found, but licenses were detected in source scan.

/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
* You may redistribute only under the terms of the Artistic Licence,
* as specified in the README file that comes with the distribution.
* You may reuse parts of this distribution only within the terms of
* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:45 ram
* patch16: created
*
*/

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

?RCS: $Id: i_ieeefp.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ieeefp: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ieeefp:
?S: This variable conditionally defines the I_IEEEFP symbol, and indicates
?S: whether a C program should include <ieeefp.h>.
?S:.
?C:I_IEEEFP:

```
?C: This symbol, if defined, indicates that <ieeefp.h> exists and
?C: should be included.
?C:.
?H:#$i_ieeefp I_IEEEFP  /**/
?H:.
?LINT:set i_ieeefp
: see if this is a ieeefp.h system
case "$i_ieeefp" in
" ) set ieeefp.h i_ieeefp
    eval $inhdr
    ;;
esac
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ieeefp.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_scalbnl: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbnl:
?S: This variable conditionally defines the HAS_SCALBNL symbol, which
?S: indicates to the C program that the scalbnl() routine is available.
?S: If ilogbl is also present we can emulate frexpl.
?S:.
?C:HAS_SCALBNL:
?C: This symbol, if defined, indicates that the scalbnl routine is
?C: available.  If ilogbl is also present we can emulate frexpl.
?C:.
?H:#$d_scalbnl HAS_SCALBNL  /**/
?H:.
?LINT:set d_scalbnl
: see if scalbnl exists
set scalbnl d_scalbnl
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_scalbnl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sunmath.U,v $
?RCS:
```

```
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sunmath: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sunmath:
?S: This variable conditionally defines the I_SUNMATH symbol, and indicates
?S: whether a C program should include <sunmath.h>.
?S:.
?C:I_SUNMATH:
?C: This symbol, if defined, indicates that <sunmath.h> exists and
?C: should be included.
?C:.
?H:#$i_sunmath I_SUNMATH  /**/
?H:.
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sunmath.U
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?RCS:
?MAKE:d_fsync: Inlibc
?MAKE: -pick add $@ %<
?S:d_fsync:
?S: This variable conditionally defines the HAS_FSYNC symbol, which
?S: indicates to the C program that the fsync() routine is available.
?S:.
?C:HAS_FSYNC:
?C: This symbol, if defined, indicates that the fsync routine is
?C: available to write a file's modified data and attributes to
?C: permanent storage.
?C:.
?H:#$d_fsync HAS_FSYNC  /**/
?H:.
?LINT:set d_fsync
: see if fsync exists
```

```
set fsync d_fsync
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fsync.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN  /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nan.U
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```
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?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1  /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
```

```
set expm1 d_expm1
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_expm1.U
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```
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?RCS:
?MAKE:d_clearenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_clearenv:
?S: This variable conditionally defines the HAS_CLEARENV symbol, which
?S: indicates to the C program that the clearenv () routine is available.
?S:.
?C:HAS_CLEARENV:
?C: This symbol, if defined, indicates that the clearenv () routine is
?C: available for use.
?C:.
?H:#$d_clearenv HAS_CLEARENV  /**/
?H:.
?LINT:set d_clearenv
: see if clearenv exists
set clearenv d_clearenv
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_clearenv.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_localeconv_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_localeconv_l:
?S: This variable conditionally defines the HAS_LOCALECONV_L symbol, which
?S: indicates to the C program that the localeconv_l() routine is available.
?S:.
```

```
?C:HAS_LOCALECONV_L:
?C: This symbol, if defined, indicates that the localeconv_l routine is
?C: available to query certain information about a locale.
?C:.
?H:#$d_localeconv_l HAS_LOCALECONV_L  /**/
?H:.
?LINT:set d_localeconv_l
: see if localeconv_l exists
set localeconv_l d_localeconv_l
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_localeconv_l.U
No license file was found, but licenses were detected in source scan.

```
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?RCS:
?MAKE:d_timegm: Inlibc
?MAKE: -pick add $@ %<
?S:d_timegm:
?S: This variable conditionally defines the HAS_TIMEGM symbol, which
?S: indicates to the C program that the timegm () routine is available.
?S:.
?C:HAS_TIMEGM:
?C: This symbol, if defined, indicates that the timegm routine is
?C: available to do the opposite of gmtime ()
?C:.
?H:#$d_timegm HAS_TIMEGM  /**/
?H:.
?LINT:set d_timegm
: see if timegm exists
set timegm d_timegm
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_timegm.U
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fma: Inlibc
?MAKE: -pick add $@ %<
```

?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fma.U
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?RCS:
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?RCS:
?MAKE:d_socks5_init: Inlibc
?MAKE: -pick add $@ %<
?S:d_socks5_init:
?S: This variable conditionally defines the HAS_SOCKS5_INIT symbol, which
?S: indicates to the C program that the socks5_init() routine is available.
?S:.
?C:HAS_SOCKS5_INIT:
?C: This symbol, if defined, indicates that the socks5_init routine is
?C: available to initialize SOCKS 5.
?C:.
?H:#$d_socks5_init HAS_SOCKS5_INIT /**/
?H:.
?LINT:set d_socks5_init
: see if socks5_init exists
set socks5_init d_socks5_init
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_socks5_init.U
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?RCS:
?MAKE:d_scalbn: Inlibc
?MAKE: -pick add $@ %<
?S:d_scalbn:
?S: This variable conditionally defines the HAS_SCALBN symbol, which
?S: indicates to the C program that the scalbn() routine is available.
?S:.
?C:HAS_SCALBN:
?C: This symbol, if defined, indicates that the scalbn routine is
?C: available to multiply floating-point number by integral power
?C: of radix.
?C:.
?H:#$d_scalbn HAS_SCALBN /**/
?H:.
?LINT:set d_scalbn
: see if scalbn exists
set scalbn d_scalbn
eval $inlibc

Found in path(s):
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?RCS:
?MAKE:d_erf: Inlibc
?MAKE: -pick add $@ %<
?S:d_erf:
?S: This variable conditionally defines the HAS_ERF symbol, which
?S: indicates to the C program that the erf() routine is available.
?S:.
?C:HAS_ERF:
?C: This symbol, if defined, indicates that the erf routine is
?C: available to do the error function.
?C:.
?H:#$d_erf HAS_ERF /**/
?H:.
?LINT:set d_erf
: see if erf exists
set erf d_erf
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_erf.U
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```
?RCS: $Id: i_ustat.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT  /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_ustat.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.U
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```
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```

```
?RCS:
?MAKE:d_lgamma: Inlibc
?MAKE: -pick add $@ %<
?S:d_lgamma:
?S: This variable conditionally defines the HAS_LGAMMA symbol, which
?S: indicates to the C program that the lgamma() routine is available
?S: for the log gamma function.  See also d_tgamma and d_lgamma_r.
?S:.
?C:HAS_LGAMMA:
?C: This symbol, if defined, indicates that the lgamma routine is
?C: available to do the log gamma function.  See also HAS_TGAMMA and
?C: HAS_LGAMMA_R.
?C:.
?H:#$d_lgamma HAS_LGAMMA  /**/
?H:.
?LINT:set d_lgamma
: see if lgamma exists
set lgamma d_lgamma
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lgamma.U
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```
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?RCS:
?MAKE:d_log2: Inlibc
?MAKE: -pick add $@ %<
?S:d_log2:
?S: This variable conditionally defines the HAS_LOG2 symbol, which
?S: indicates to the C program that the log2() routine is available
?S: to compute log base two.
?S:.
?C:HAS_LOG2:
?C: This symbol, if defined, indicates that the log2 routine is
?C: available to do the log2 function.
?C:.
?H:#$d_log2 HAS_LOG2  /**/
?H:.
?LINT:set d_log2
: see if log2 exists
set log2 d_log2
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log2.U

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?RCS:
?MAKE:d_asinh: Inlibc
?MAKE: -pick add $@ %<
?S:d_asinh:
?S: This variable conditionally defines the HAS_ASINH symbol, which
?S: indicates to the C program that the asinh() routine is available.
?S:.
?C:HAS_ASINH:
?C: This symbol, if defined, indicates that the asinh routine is
?C: available to do the inverse hyperbolic sine function.
?C:.
?H:#$d_asinh HAS_ASINH /**/
?H:.
?LINT:set d_asinh
: see if asinh exists
set asinh d_asinh
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_asinh.U
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?RCS: $Id: i_poll.U,v $
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?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll

```
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_poll.U
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```
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?RCS:
?MAKE:d_inetpton: Inlibc
?MAKE: -pick add $@ %<
?S:d_inetpton:
?S: This variable conditionally defines the HAS_INETPTON symbol,
?S: which indicates to the C program that the inet_pton() function
?S: is available.
?S:.
?C:HAS_INETPTON:
?C: This symbol, if defined, indicates that the inet_pton() function
?C: is available to parse IPv4 and IPv6 strings.
?C:.
?H:#$d_inetpton HAS_INETPTON  /**/
?H:.
?LINT:set d_inetpton
: see if inet_pton exists
set inet_pton d_inetpton
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_inetpton.U
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```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
```

?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysvfs.U
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?RCS:
?MAKE:d_fegetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fegetround:
?S: This variable conditionally defines HAS_FEGETROUND if fegetround() is
?S: available to get the floating point rounding mode.
?S:.
?C:HAS_FEGETROUND:
?C: This symbol, if defined, indicates that the fegetround routine is
?C: available to return the macro corresponding to the current rounding
?C: mode.
?C:.
?H:#$d_fegetround HAS_FEGETROUND /**/
?H:.
?LINT:set d_fegetround
: see if fegetround exists
set fegetround d_fegetround
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fegetround.U
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?RCS:
?MAKE:d_trunc: Inlibc
?MAKE: -pick add $@ %<
?S:d_trunc:
?S: This variable conditionally defines the HAS_TRUNC symbol, which
?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.
?S:.
?C:HAS_TRUNC:
?C: This symbol, if defined, indicates that the trunc routine is
?C: available to round doubles towards zero.
?C:.
?H:#$d_trunc HAS_TRUNC /**/
?H:.
?LINT:set d_trunc
: see if trunc exists
set trunc d_trunc
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_trunc.U
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?RCS: $Id: i_sysstatfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatfs.U
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?RCS:
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?RCS:
?MAKE:i_langinfo: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_langinfo:
?S: This variable conditionally defines the I_LANGINFO symbol,
?S: and indicates whether a C program should include <langinfo.h>.
?S:.
?C:I_LANGINFO:
?C: This symbol, if defined, indicates that <langinfo.h> exists and
?C: should be included.
?C:.
?H:#$i_langinfo I_LANGINFO /**/
?H:.
?LINT:set i_langinfo
: see if this is a langinfo.h system
set langinfo.h i_langinfo
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_langinfo.U
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?RCS:
?MAKE:d_lrintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_lrintl:
?S: This variable conditionally defines the HAS_LRINTL symbol, which
?S: indicates to the C program that the lrintl() routine is available
?S: to return the integral value closest to a long double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LRINTL:
?C: This symbol, if defined, indicates that the lrintl routine is
?C: available to return the integral value closest to a long double
?C: (according to the current rounding mode).
?C:.
?H:#$d_lrintl HAS_LRINTL /**/
?H:.
?LINT:set d_lrintl
: see if lrintl exists
set lrintl d_lrintl
eval $inlibc

Found in path(s):

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_lrintl.U
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:d_dup3: Inlibc
?MAKE: -pick add $@ %<
?S:d_dup3:
?S: This variable conditionally defines HAS_DUP3 if dup3() is
?S: available to duplicate file descriptors.
?S:.
?C:HAS_DUP3:
?C: This symbol, if defined, indicates that the dup3 routine is
?C: available to duplicate file descriptors.
?C:.
?H:#$d_dup3 HAS_DUP3 /**/
?H:.
?LINT:set d_dup3
: see if dup3 exists
set dup3 d_dup3
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_dup3.U
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_getitimer:
?S: This variable conditionally defines the HAS_GETITIMER symbol, which
?S: indicates to the C program that the getitimer() routine is available.
?S:.
?C:HAS_GETITIMER:
?C: This symbol, if defined, indicates that the getitimer routine is
?C: available to return interval timers.

?C:.
?H:#$d_getitimer HAS_GETITIMER /**/
?H:.
?LINT:set d_getitimer
: see if getitimer exists
set getitimer d_getitimer
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getitimer.U
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?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available. If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_copysignl.U
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?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRINT symbol, which

?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRINT /**/
?H:.
?LINT:set d_llrint
: see if llrint exists
set llrint d_llrint
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llrint.U
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?RCS: $Id: i_crypt.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_crypt: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_crypt:
?S: This variable conditionally defines the I_CRYPT symbol, and indicates
?S: whether a C program should include <crypt.h>.
?S:.
?C:I_CRYPT:
?C: This symbol, if defined, indicates that <crypt.h> exists and
?C: should be included.
?C:.
?H:#$i_crypt I_CRYPT /**/
?H:.
?LINT:set i_crypt
: see if this is a crypt.h system
set crypt.h i_crypt
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_crypt.U
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```
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?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fseeko: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_fseeko:
?S: This variable conditionally defines the HAS_FSEEKO symbol, which
?S: indicates to the C program that the fseeko() routine is available.
?S:.
?C:HAS_FSEEKO:
?C: This symbol, if defined, indicates that the fseeko routine is
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_fseeko HAS_FSEEKO  /**/
?H:.
?LINT:set d_fseeko
: see if fseeko exists
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_fseeko.U
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```
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?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
```

?H:#$d_sendmsg HAS_SENDMSG /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_sendmsg.U
No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_setitimer.U
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?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.

?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND /**/
?H:.
?LINT:set d_llround
: see if llround exists
set llround d_llround
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llround.U
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?RCS:
?MAKE:d_aintl: Inlibc
?MAKE: -pick add $@ %<
?S:d_aintl:
?S: This variable conditionally defines the HAS_AINTL symbol, which
?S: indicates to the C program that the aintl() routine is available.
?S: If copysignl is also present we can emulate modfl.
?S:.
?C:HAS_AINTL:
?C: This symbol, if defined, indicates that the aintl routine is
?C: available. If copysignl is also present we can emulate modfl.
?C:.
?H:#$d_aintl HAS_AINTL /**/
?H:.
?LINT:set d_aintl
: see if aintl exists
set aintl d_aintl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_aintl.U
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* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/files/Jmake.tmpl
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?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac

Found in path(s):
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?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.

?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getnameinfo.U
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?RCS: $Id: i_syslog.U,v $
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?RCS:
?MAKE:i_syslog: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_syslog:
?S: This variable conditionally defines the I_SYSLOG symbol,
?S: and indicates whether a C program should include <syslog.h>.
?S:.
?C:I_SYSLOG:
?C: This symbol, if defined, indicates that <syslog.h> exists and
?C: should be included.
?C:.
?H:#$i_syslog I_SYSLOG /**/
?H:.
?LINT:set i_syslog
: see if this is a syslog.h system
set syslog.h i_syslog
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_syslog.U
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/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*

```
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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setsid.C
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?RCS:
?MAKE:d_nearbyint: Inlibc
?MAKE: -pick add $@ %<
?S:d_nearbyint:
?S: This variable conditionally defines HAS_NEARBYINT if nearbyint()
?S: is available to return the integral value closest to (according to
?S: the current rounding mode) to x.
?S:.
?C:HAS_NEARBYINT:
?C: This symbol, if defined, indicates that the nearbyint routine is
?C: available to return the integral value closest to (according to
?C: the current rounding mode) to x.
?C:.
?H:#$d_nearbyint HAS_NEARBYINT  /**/
?H:.
?LINT:set d_nearbyint
: see if nearbyint exists
set nearbyint d_nearbyint
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_nearbyint.U
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```
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?RCS:
?MAKE:d_log1p: Inlibc
?MAKE: -pick add $@ %<
?S:d_log1p:
```

?S: This variable conditionally defines the HAS_LOG1P symbol, which
?S: indicates to the C program that the logp1() routine is available
?S: to compute log(1 + x) for values of x close to zero.
?S:.
?C:HAS_LOG1P:
?C: This symbol, if defined, indicates that the log1p routine is
?C: available to do the logarithm of 1 plus argument function.
?C:.
?H:#$d_log1p HAS_LOG1P /**/
?H:.
?LINT:set d_log1p
: see if log1p exists
set log1p d_log1p
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_log1p.U
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?RCS:
?MAKE:d_towlower: Inlibc
?MAKE: -pick add $@ %<
?S:d_towlower:
?S: This variable conditionally defines the HAS_TOWLOWER symbol, which
?S: indicates to the C program that the towlower() routine is available.
?S:.
?C:HAS_TOWLOWER:
?C: This symbol, if defined, indicates that the towlower () routine is
?C: available to do case conversion.
?C:.
?H:#$d_towlower HAS_TOWLOWER /**/
?H:.
?LINT:set d_towlower
: see if towlower exists
set towlower d_towlower
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_towlower.U
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?RCS: Id

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?RCS:
?MAKE:d_strtod_l: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_l:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_l HAS_STRTOD_L  /**/
?H:.
?LINT:set d_strtod_l
: see if strtod_l exists
set strtod_l d_strtod_l
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d_strtod_l.U
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?RCS: $Id: i_shadow.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_prot: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_prot:
?S: This variable conditionally defines the I_PROT symbol, and indicates
?S: whether a C program should include <prot.h>.
?S:.
?C:I_PROT:
?C: This symbol, if defined, indicates that <prot.h> exists and
?C: should be included.
?C:.
?H:#$i_prot I_PROT  /**/
?H:.
?LINT:set i_prot
: see if this is a prot.h system
```

```
set prot.h i_prot
eval $inhdr
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_prot.U
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```
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?RCS:
?MAKE:d_accessx: Inlibc
?MAKE: -pick add $@ %<
?S:d_accessx:
?S: This variable conditionally defines the HAS_ACCESSX symbol, which
?S: indicates to the C program that the accessx() routine is available.
?S:.
?C:HAS_ACCESSX :
?C: This symbol, if defined, indicates that the accessx routine is
?C: available to do extended access checks.
?C:.
?H:#$d_accessx HAS_ACCESSX  /**/
?H:.
?LINT:set d_accessx
: see if accessx exists
set accessx d_accessx
eval $inlibc
```

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d_accessx.U
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```
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?RCS:
?MAKE:d_llroundl: Inlibc
?MAKE: -pick add $@ %<
?S:d_llroundl:
?S: This variable conditionally defines the HAS_LLROUNDL symbol, which
?S: indicates to the C program that the llroundl() routine is available
?S: to return the long long value nearest to x away from zero.
?S:.
?C:HAS_LLROUNDL:
?C: This symbol, if defined, indicates that the llroundl routine is
?C: available to return the nearest long long value away from zero of
```

?C: the long double argument value.
?C:.
?H:#$d_llroundl HAS_LLROUNDL /**/
?H:.
?LINT:set d_llroundl
: see if llroundl exists
set llroundl d_llroundl
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_llroundl.U
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?RCS:
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_getfsstat.U
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?RCS: $Id: i_sysstatvfs.U,v $
?RCS:
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?RCS:

?MAKE:i_sysstatvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatvfs:
?S: This variable conditionally defines the I_SYSSTATVFS symbol,
?S: and indicates whether a C program should include <sys/statvfs.h>.
?S:.
?C:I_SYS_STATVFS:
?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_sysstatvfs.U
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* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
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* of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C
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?RCS:
?MAKE:d_remainder: Inlibc

?MAKE: -pick add $@ %<
?S:d_remainder:
?S: This variable conditionally defines the HAS_REMAINDER symbol, which
?S: indicates to the C program that the remainder() routine is available.
?S:.
?C:HAS_REMAINDER:
?C: This symbol, if defined, indicates that the remainder routine is
?C: available to return the floating-point remainder.
?C:.
?H:#$d_remainder HAS_REMAINDER /**/
?H:.
?LINT:set d_remainder
: see if remainder exists
set remainder d_remainder
eval $inlibc

Found in path(s):
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_remainder.U

1.923 python3.8 3.8.10-0ubuntu1~20.04.9

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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, 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 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
2.1.2	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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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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1.929 curl 7.68.0-1ubuntu2.21

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==========

libcurl can be built to use a fair amount of various third party libraries,

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was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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1.930 kubernetes-klog 2.110.1

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1.931 glibc 2.31-0ubuntu9.14

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1.934 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.
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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:
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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
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6,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xe
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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

1.935 prometheus-client-model 0.4.0

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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');

```
    s.type = 'text/javascript';
    s.async = true;
    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);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
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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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  prettyPrint();
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```
/**********************************************************************
* NCSA HTTPd Server
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* National Center for Supercomputing Applications
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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**********************************************************************
 *
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* The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
```

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 which is licenced as follows:
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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

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tests/client/torture_session.c
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Files: examples/exec.c
examples/senddata.c
examples/CMakeLists.txt
include/libssh/ssh1.h
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
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tests/generate.py
tests/sftp_stress/main.c
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Files: examples/authentication.c
examples/connect_ssh.c
examples/examples_common.h
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examples/libssh_scp.c

examples/libsshpp.cpp
examples/libsshpp_noexcept.cpp
examples/proxy.c
examples/sample.c
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Files: tests/pkd/pkd_client.h
tests/pkd/pkd_daemon.c
tests/pkd/pkd_daemon.h
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tests/pkd/pkd_keyutil.h
tests/pkd/pkd_util.c
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Files: src/channels.c
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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
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src/config.c
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Files: cmake/Modules/AddCMockaTest.cmake
cmake/Modules/CheckCCompilerFlagSSP.cmake
cmake/Modules/FindArgp.cmake
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procfs provides functions to retrieve system, kernel and process
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localtime.go, localtime_test.go:

Originals:
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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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1.941 x-crypto 0.17.0

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1.942 sqlite 3.31.1-4ubuntu0.6

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For the following 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
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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
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
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- 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
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- web-common_3_1.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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* /jline-3-22-0-sources-8-jar/org/jline/utils/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/ClosedException.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Reference.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/package-info.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/EnumCompleter.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/ExecPty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/NullCompleter.java
*
 /jline-3-22-0-sources-8-jar/org/jline/reader/Macro.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/Cursor.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Expander.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/DefaultExpander.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/InputStreamReader.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Levenshtein.java
* /jline-3-22-0-sources-8-jar/org/jline/keymap/KeyMap.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/WCWidth.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/UndoTree.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/CursorSupport.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/history/package-info.java

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* /jline-3-22-0-sources-8-jar/org/jline/console/impl/DefaultPrinter.java
* /jline-3-22-0-sources-8-jar/org/jline/console/Printer.java
* /jline-3-22-0-sources-8-jar/org/jline/console/impl/SystemHighlighter.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Source.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Commands.java
* /jline-3-22-0-sources-8-jar/org/jline/console/impl/SystemRegistryImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Less.java
* /jline-3-22-0-sources-8-jar/org/jline/console/impl/Builtins.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/LineReaderImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/SyntaxHighlighter.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
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number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
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orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
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change_res_vert, cvr, ZD
change_scroll_region, csr, cs
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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
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create_window, cwin, CW
cursor_address, cup, cm
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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
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cursor_visible, cvvis, vs
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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
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enter_underline_mode, smul, us
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exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
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exit_doublewide_mode, rwidm, ZQ
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exit_micro_mode, rmicm, ZT
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ZU
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goto_window, wingo, WG
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init_2string, is2, is
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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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keypad_xmit, smkx, ks
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lab_f1, lf1, l1
lab_f10, lf10, la
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label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
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micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
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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

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quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
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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
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xoff_character, xoffc, XF
xon_character, xonc, XN
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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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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
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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
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grey89
grey93

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* /jline-3-22-0-sources-8-jar/org/jline/terminal/spi/TerminalProvider.java
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* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Display.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CommandMethods.java
* /jline-3-22-0-sources-8-jar/org/jline/console/ScriptEngine.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/CompletionMatcher.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/JansiNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CmdDesc.java
*
 /jline-3-22-0-sources-8-jar/org/jline/console/impl/AbstractCommandRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/widget/Widgets.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CmdLine.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Log.java

* /jline-3-22-0-sources-8-jar/org/jline/widget/AutosuggestionWidgets.java
* /jline-3-22-0-sources-8-jar/org/jline/console/impl/JlineCommandRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/console/CommandRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/JnaNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/EndOfFileException.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
*
 /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Signals.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/widget/AutopairWidgets.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/LineReaderBuilder.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/DefaultParser.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/ColorPalette.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/SystemCompleter.java
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* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlocking.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Curses.java
* /jline-3-22-0-sources-8-jar/org/jline/keymap/BindingReader.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/ExternalTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleSource.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/StyleResolver.java
*
 /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/Kernel32.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/AttributedStringBuilder.java

* /jline-3-22-0-sources-8-jar/org/jline/reader/Completer.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/MaskingCallback.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingReader.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/CompletingParsedLine.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/InputRC.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Colors.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/Size.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleFactory.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/FileNameCompleter.java
*
 /jline-3-22-0-sources-8-jar/org/jline/utils/Timeout.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/ParsedLine.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/Terminal.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/History.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/DumbTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/style/Styler.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/NfaMatcher.java
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* /jline-3-22-0-sources-8-jar/org/jline/style/StyleResolver.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingPumpReader.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/BufferImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/style/InterpolationHelper.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/SimpleMaskingCallback.java
*
 /jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/Ssh.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/WriterOutputStream.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyledWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/telnet/Telnet.java
* /jline-3-22-0-sources-8-jar/org/jline/style/MemoryStyleSource.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/PumpReader.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Buffer.java
* /jline-3-22-0-sources-8-jar/org/jline/style/StyleColor.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/ssh/ShellCommand.java

* /jline-3-22-0-sources-8-jar/org/jline/style/StyleBundle.java
*
 /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
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* /jline-3-22-0-sources-8-jar/org/jline/builtins/Completers.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Nano.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-3-22-0-sources-8-jar/org/jline/widget/TailTipWidgets.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/history/DefaultHistory.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/PrintAboveWriter.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/TTop.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/Styles.java

*
 /jline-3-22-0-sources-8-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/AttributedStyle.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/LineReader.java
* /jline-3-22-0-sources-8-jar/org/jline/console/ConsoleEngine.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Parser.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/TerminalBuilder.java
* /jline-3-22-0-sources-8-jar/org/jline/console/SystemRegistry.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/console/ArgDesc.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/AttributedCharSequence.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Highlighter.java
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* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-reader/pom.xml
* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-terminal/pom.xml
* /jline-3-22-0-sources-8-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
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* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Editor.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/Candidate.java
* /jline-3-22-0-sources-8-jar/org/jline/builtins/ConfigurationPath.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /jline-3-22-0-sources-8-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/InfoCmp.java
* /jline-3-22-0-sources-8-jar/org/jline/utils/Status.java
* /jline-3-22-0-sources-8-jar/org/jline/reader/impl/completer/StringsCompleter.java

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1.951 tomcat-util-scan 9.0.84

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1.952 logback-core 1.2.13

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* /logback-core-1-2-13-sources-jar/ch/qos/logback/core/net/HardenedObjectInputStream.java

1.953 iputils 20190709-3ubuntu1

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1.956 golang 1.20.13

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* /netty-transport-native-unix-common-4-1-105-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
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* /netty-transport-native-unix-common-4-1-105-final-sources-jar/netty_unix_util.c
* /netty-transport-native-unix-common-4-1-105-final-sources-jar/netty_unix_limits.c
*
 /netty-transport-native-unix-common-4-1-105-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /netty-transport-native-unix-common-4-1-105-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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* /netty-transport-native-unix-common-4-1-105-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
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jar/io/netty/channel/unix/DatagramSocketAddress.java
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jar/io/netty/channel/unix/ServerDomainSocketChannel.java
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* /netty-transport-native-unix-common-4-1-105-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/Promise.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
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 /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/ConstantPool.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/package-info.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/ResourceLeakDetector.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
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*
 /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/Recycler.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
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* /netty-common-4-1-105-final-sources-
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 /netty-common-4-1-105-final-sources-
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscChunkedAtomicArrayQueue.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowableArrayQueue.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscArrayQueue.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscChunkedArrayQueue.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
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 /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/DomainNameMapping.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/Mapping.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/IntegerHolder.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/AsciiString.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/ResourceLeakHint.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/PlatformDependent.java
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/AbstractConstant.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/Constant.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/NetUtil.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
*
 /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/StringUtil.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/CharsetUtil.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/HashedWheelTimer.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/package-info.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/package-info.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java
*
 /netty-common-4-1-105-final-sources-jar/io/netty/util/Timer.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/AttributeMap.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/TimerTask.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/Signal.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java

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* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
*
 /netty-common-4-1-105-final-sources-jar/io/netty/util/AsyncMapping.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/HashingStrategy.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/internal/LongCounter.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>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-surefire-plugin</artifactId>
   <version>3.0.0-M3</version>
   <configuration>
    <includes>
     <include>*</include>
    </includes>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.felix</groupId>
   <artifactId>maven-bundle-plugin</artifactId>
   <version>4.2.1</version>
   <extensions>true</extensions>
   <configuration>
    <instructions>
     <Import-Package>sun.misc;resolution:=optional</Import-Package>
    </instructions>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-source-plugin</artifactId>
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   <executions>
    <execution>
     <id>attach-sources</id>
     <phase>verify</phase>
     <goals>
      <goal>jar-no-fork</goal>
```

```
    </goals>
   </execution>
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 </plugin>
 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
   <additionalOptions>
    <additionalOption>-Xdoclint:none</additionalOption>
   </additionalOptions>
   <source>8</source>
  </configuration>
  <executions>
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    </goals>
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  </executions>
 </plugin>
</plugins>
</build>

<distributionManagement>
 <repository>
  <id>bintray-jctools-jctools</id>
  <name>jctools-jctools</name>
  <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
 </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>
```

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 <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>

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 in path(s):
* /netty-common-4-1-105-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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* /netty-common-4-1-105-final-sources-jar/io/netty/util/NetUtilInitializations.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/NetUtilSubstitutions.java
* /netty-common-4-1-105-final-sources-jar/io/netty/util/DomainWildcardMappingBuilder.java
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Found in path(s):
* /netty-common-4-1-105-final-sources-jar/META-INF/native-image/io.netty/netty-common/native-image.properties

1.960 netty-codec 4.1.105.Final

1.960.1 Available under license :

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Found in path(s):
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/Headers.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
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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
* Robert
 Harder's Public Domain
* Base64 Encoder/Decoder.
*/

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* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.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-jar/io/netty/handler/codec/compression/Crc32c.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
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* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
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 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-codec-4-1-105-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
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 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/CodecException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
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* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/ValueConverter.java
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* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
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* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
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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-4-1-105-final-sources-jar/io/netty/handler/codec/base64/Base64.java
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* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
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* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-105-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
*
 /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-105-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
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 /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
*

/netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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/netty-handler-4-1-105-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
*
 /netty-handler-4-1-105-final-sources-jar/io/netty/handler/address/package-info.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
*
 /netty-handler-4-1-105-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/logging/package-info.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/IPPacket.java
*
 /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/package-info.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
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* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
*
 /netty-handler-4-1-105-final-sources-jar/io/netty/handler/flow/package-info.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
*
 /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-105-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

1.962 netty-transport 4.1.105.Final

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* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
*
 /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelException.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
*
 /netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/package-info.java
*

/netty-transport-4-1-105-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelOption.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/package-info.java
*
/netty-transport-4-1-105-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/EventLoop.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
*
/netty-transport-4-1-105-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/EventLoopGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/package-info.java
*
/netty-transport-4-1-105-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/EventLoopException.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/local/package-info.java
*

/netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultEventLoop.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/CombinedIterator.java
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/netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
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/netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
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* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/pool/package-info.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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 /netty-transport-4-1-105-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.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-4-1-105-final-sources-jar/io/netty/channel/SelectStrategy.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java

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* /netty-transport-4-1-105-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java
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* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/PendingWriteQueue.java
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* /netty-transport-4-1-105-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
*
 /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java

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/netty-transport-4-1-105-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ChannelId.java
* /netty-transport-4-1-105-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
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The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the

function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

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this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters,
data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

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Library is used in it and that the Library and its use are
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You may convey a Combined Work under terms of your choice that,
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portions of the Library contained in the Combined Work and reverse
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displays copyright notices during
execution, include the copyright notice for the Library among
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d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form

suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible
with the Linked
Version.

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be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
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5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
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library under terms of your
choice, if you do both of the following:

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on the Library, uncombined with any other library facilities,
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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.

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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.

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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

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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.

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
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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 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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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 License.

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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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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 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 compile 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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b) 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.

c) 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.

d) 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 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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exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Program
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*

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* /netty-transport-classes-epoll-4-1-105-final-sources-jar/io/netty/channel/epoll/EpollMode.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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   * 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.
   */
```

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* /netty-transport-classes-epoll-4-1-105-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
* /netty-transport-classes-epoll-4-1-105-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
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* /netty-transport-classes-epoll-4-1-105-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
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*
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* /netty-transport-classes-epoll-4-1-105-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /netty-transport-classes-epoll-4-1-105-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
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1.966 systemd 245.4-4ubuntu3.23

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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.

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 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.

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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:

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 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 distribute.

7. You may place library facilities that are a work based on the 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 permitted, and provided that you do these two things:

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

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Linking with OpenSSL

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

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
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sections when you distribute them as separate works. But when you
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entire whole, and thus to each and every part regardless of who wrote
it.

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
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In addition, mere aggregation of another work not based on the Library
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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.

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.

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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.)

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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
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1.970 sqlx 1.3.5

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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

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* /logr-1-3-0-4-zip/logr-1.3.0/DESCRIPTION
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/*
 Source: https://github.com/algolia/docsearch/
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*/

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* /logr-1-3-0-4-zip/logr-1.3.0/docs/docsearch.css
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1.972 zlib 1.2.11

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1.973 zlib 1.2.13

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1.974 hashicorp-uuid 1.0.2

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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"`
}
# This source code was written by the Go 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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* /leveldb-0-15-tar-gz/leveldb-0.15/leveldb/util/arena.cc
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*

/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
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/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
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* /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
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* /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
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 /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).
*/

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* /leveldb-0-15-tar-gz/leveldb-0.15/snappy/snappy-c.h

1.977 jinja2 2.10.1-2ubuntu0.2

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1.978 msgp 1.1.6

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1.979 lz4-java 1.8.0

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
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

Stephen,

"There is no restriction on modifications and derived works" on the work I
did for the openldap server as long as this is consistent with the openldap
license. Please forward this email to Kurt so he does the appropriate
changes to the files to reflect this.

Regards, Juan

MA
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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

Hi Stephen,

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---

 * To: Stephen Frost <sfrost@snowman.net>
 * Subject: Re: OpenLDAP Licenseing issues
 * From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
  * 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>
 * Old-return-path: <Kurt@OpenLDAP.org>

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of course, welcomed to
 expend time and energy seeking clarifications
you think are necessary. I suggest you contact University's general
counsel office (http://www.umich.edu/~vpgc/).

Regards, Kurt

1.981 netns 0.0.0-20210104183010-2eb08e3e575f

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1.982 go-toml 1.9.3

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localtime.go, localtime_test.go:

Originals:
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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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1.983 golang 1.21.7

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1.984 python-certifi 2019.11.28-1

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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
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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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@(#) $RCSfile: certdata.txt,v $
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1.985 openssl 1.1.1x

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
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<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">
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<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" /></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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href="http://httpd.apache.org/lists.html">mailing lists.
<script type="text/javascript"><!--//--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');

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      s.type = 'text/javascript';
      s.async = true;
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comments_identifier;
      (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
    }
   else {
      d.write('<div id="comments_thread">Comments are disabled for this page at the moment.<\/div>');
   }
})(window, document);
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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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   prettyPrint();
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71150.2731@compuserve.com]:

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1.988 shadow 4.8.1-1ubuntu5.20.04.5

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1.990 mobile-cnat-golang-lib-go-diameter 4.0.6-0.20240202091410-0df14d4c1f44

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1.992 openssl 1.1.1f-1ubuntu2.22

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1.993 less 551-1ubuntu0.2

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* /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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* /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
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/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
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/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

1.997 zookeeper 3.8.4

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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/admin/CommandResponse.java
*
 /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
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*

/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/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
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* /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
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* /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
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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
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/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
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* /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
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* /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

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 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/persistence/SnapStream.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/common/FileKeyStoreLoaderBuilderProvider.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerShutdownHandler.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/quorum/ObserverZooKeeperServer.java
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 /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/client/ZooKeeperSaslClient.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/server/watch/WatcherMode.java
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* /zookeeper-3-8-4-sources-jar/org/apache/zookeeper/util/CircularBlockingQueue.java

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1.1001 apache-http-server 2.4.41-4ubuntu3.16

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<!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=ISO-8859-1" http-equiv="Content-Type" />
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X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
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<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">
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<img title="<-" alt="<-" src="./images/left.gif" />

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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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    d.write(' <\/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    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);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
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```
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* Software Development Group
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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****
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*
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Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/

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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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* 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
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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

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

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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

Assorted

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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 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 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 distribute.

7. You may place library facilities that are a work based on the 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 permitted, and provided that you do these two things:

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

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

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this
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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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have made
generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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a pointer to where the full notice is found.

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

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the

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!
uganda.txt For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY
iccf *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
  that they must include this license text. You can also distribute
  unmodified parts of Vim, likewise unrestricted except that they must
  include this license text. You
are also allowed to include executables
  that you made from the unmodified Vim sources, plus your own usage
  examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
  including executables and/or source code, when the following four
  conditions are met:
  1) This license text must be included unmodified.
  2) The modified Vim must be distributed in one of the following five ways:
    a) If you make changes to Vim yourself, you must clearly describe in
  the distribution how to contact you. When the maintainer asks you

(in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does

not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading
the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- 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 make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further
distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==
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
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit
card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

1.1005 spring-framework 5.3.33

1.1005.1 Available under license :

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

```
/*
* Copyright 2002-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /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
*
/spring-core-5-3-33-sources-jar/org/springframework/core/SmartClassLoader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2002-2020 the original author or authors.
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* you may not use this file except in compliance with the License.
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ResourceRegionEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/GenericTypeResolver.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/OrderComparator.java
*
 /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
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* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
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* /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
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* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ResourceDecoder.java
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* /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
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* /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
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 /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
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* /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
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* /spring-core-5-3-33-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/SortedProperties.java
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* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
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* /spring-core-5-3-33-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
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* /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
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* /spring-core-5-3-33-sources-
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* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/task/TaskDecorator.java
* /spring-core-5-3-33-sources-jar/org/springframework/util/LinkedMultiValueMap.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
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* /spring-core-5-3-33-sources-jar/org/springframework/util/ErrorHandler.java
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* /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
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* /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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* /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
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* /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
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* /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
* /spring-core-5-3-33-sources-jar/org/springframework/lang/UsesSunHttpServer.java
* /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
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 /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
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* /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/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/io/buffer/DataBufferFactory.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java

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* /spring-core-5-3-33-sources-jar/org/springframework/core/ParameterizedTypeReference.java
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* /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
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 /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
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* /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
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* /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
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* /spring-core-5-3-33-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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* /spring-core-5-3-33-sources-jar/org/springframework/util/unit/DataUnit.java
*
 /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
*
 /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /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
*
 /spring-core-5-3-33-sources-jar/org/springframework/lang/NonNullFields.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/io/buffer/DataBufferWrapper.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteBufferDecoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
* /spring-core-5-3-33-sources-jar/org/springframework/core/ReactiveAdapter.java
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1.1006 curl 7.68.0-1ubuntu2.22

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==========

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the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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1.1007 spring-context 5.3.33

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1.1008 pkix-ssh 14.4.2

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- Zlib is now external, in a library
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*
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1.1011 openssh 9.6

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1.1012 linux-libc-dev 5.4.0-176.196

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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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1.1013 pflag 1.0.5

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1.1014 zstd 1.4.1

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1.1015 supervisor 4.2.5

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1.1016 kubernetes-cliruntime 0.29.0

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1.1017 gettext-go 1.0.2

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1.1022 xxhash 2.1.1

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1.1024 mergo 0.3.6

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fields:
site: string
author: root

1.1025 go-uber-org-multierr 1.11.0

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1.1027 go.uber.org/atomi 1.10.0

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1.1029 go-multierror 1.1.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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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"`
}
# This source code was written by the Go 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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1.1057 lib-pq 1.10.9

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```
//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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1.1058 kr-fs 0.1.0

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1.1059 cmux 0.1.5

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1.1060 speakeasy 0.1.0

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1.1061 reflectwalk 1.0.2

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1.1062 packaging 16.8

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1.1063 color 1.13.0

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1.1064 mitchellh-copystructure 1.2.0

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1.1070 go.etcd.io-bbolt 1.3.6

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1.1071 protobuf 1.30.0

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1.1072 golang-protobuf-extensions 1.0.1

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1.1073 gokrb5 8.4.2

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1.1074 sql-migrate 1.5.2

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1.1079 gopkg.in-yaml 3.0.0-20200313102051-9f266ea9e77c

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1.1080 urfave-cli 1.22.4

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1.1081 xiang90-probing 0.0.0-20190116061207-43a291ad63a2

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1.1082 easyjson 0.7.7

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1.1083 yaml 1.3.0

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1.1084 gopkg.in-yaml 2.4.0

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1.1085 protobuf 1.28.1

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1.1086 google-uuid 1.3.0

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1.1087 goprotobuf 1.5.2

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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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1.1088 structured-merge-diff 4.2.3

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1.1089 prometheus-client 1.14.0

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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlEnum.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlRegistry.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlNsForm.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/PropertyException.java
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 /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlElement.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAttribute.java
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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
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlList.java
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/annotation/XmlAccessType.java
* /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
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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/Element.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/ValidationEvent.java
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* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/helpers/ValidationEventImpl.java
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* /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
* /jaxb-api-2-2-11-sources-9-jar/javax/xml/bind/Validator.java
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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h
ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.strea
m,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.log
ging;version="3.0.5",com.sun.istack.localization;version="3.0.5"
Bundle-Name:
istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:
27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

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1.1118 yaml 1.2.0

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1.1119 activation-api 1.2.2

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1.1120 k8s.io/utils 0.0.0-20230209194617-a36077c30491

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1.1121 k8s.io/utils 0.0.0-20230726121419-3b25d923346b

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1.1125 logrus 1.8.1

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1.1126 go-units 0.4.0

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