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- 1.869 jersey-container-servlet 2.39.1**
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- 1.999 sigs.k8s.io-json 0.0.0-20221116044647-bc3834ca7abd**
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- 1.1038 evanphx-json-patch 5.7.0**
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- 1.1083 go-restful 3.9.0**
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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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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates 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.
coderrules.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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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.

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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>
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RELATED SOFTWARE

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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 PBPLUS 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 PBPLUS/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

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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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* @version 1.0
* @author Mikael Grev, MiG InfoCom AB
* Date: 2006-sep-08
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*

* @version 1.0

* @author Mikael Grev, MiG InfoCom AB

* Date: 2006-sep-08

*/

/** 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 `null` and elements may be `null`.

* `null` 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 position the component.

* `<p>`

* Note that { `@link #setBoundsInGrid(boolean)` } changes the interpretation of this property 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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*

* @version 1.0

* @author Mikael Grev, MiG InfoCom AB

* Date: 2006-sep-08

*/

/** 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 `null`. Returns `null` if there was no gap specified. A new and
 free to use array.

*/

Found in path(s):

* /opt/cola/permits/117692136_1695289078.9935892/0/miglayout-3-5-5-sources-
 jar/net/miginfocom/layout/DimConstraint.java

1.6 commons-collections 3.2.2

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1.7 taglibs-standard-spec 1.2.5

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1.10 animal-sniffer-annotation 1.14

1.10.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/66" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="MobileOptimized" content="width" />
  <title>The MIT License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWfJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
```

```

media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ooglib" media="all" />
<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
<script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![ ]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });
  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });
});
//--><![ ]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-

```



```

eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!--><![CDATA[</><!--
jQuery.extend(Drupal.settings,
{"basePath":"\\","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s2vZViqeD319Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA"},"js":{"\\code.jquery.com/jquery-
1.10.2.min.js":1,"0":1,"misc/jquery.once.js":1,"misc/drupal.js":1,"\\maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js
/bootstrap.min.js":1,"1":1,"sites/all/libraries/superfish/jquery.hoverIntent.minified.js":1,"sites/all/libraries/supe
rfish/sftouchscreen.js":1,"sites/all/libraries/superfish/sfsmallscreen.js":1,"sites/all/libraries/superfish/suppositi
on.js":1,"sites/all/libraries/superfish/superfish.js":1,"sites/all/libraries/superfish/supersubs.js":1,"sites/all/mod
ules/superfish/superfish.js":1,"sites/all/themes/bootstrap-
business/js/jquery.browser.min.js":1},"css":{"modules/system/system.base.css":1,"modules/system/system.men
us.css":1,"modules/system/system.messages.css":1,"modules/system/system.theme.css":1,"modules/aggregator/
aggregator.css":1,"modules/comment/comment.css":1,"modules/field/theme/field.css":1,"sites/all/modules/mol
lom/mollom.css":1,"modules/node/node.css":1,"modules/search/search.css":1,"modules/user/user.css":1,"sites/
all/modules/views/css/views.css":1,"sites/all/modules/ctools/css/ctools.css":1,"\\maxcdn.bootstrapcdn.com/
bootstrap/3.2.0/css/bootstrap.min.css":1,"sites/all/libraries/superfish/css/superfish.css":1,"sites/all/themes/bo
otstrap-business/css/style.css":1,"sites/all/themes/bootstrap-
business/color/colors.css":1,"sites/all/themes/bootstrap-business/css/local.css":1,"sites/all/themes/bootstrap-
business/css/ie8.css":1}},"urlIsAjaxTrusted":{"\\licenses/mit-
license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u002
7fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"windo
w_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":fa
lse,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extr
aWidth":1}}}}});
//--><![>
</script>
</head>
<body
class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
<div class="container">

<!-- #header-top-inside -->
<div id="header-top-inside" class="clearfix">
<div class="row">

<div class="col-md-8">
<!-- #header-top-left -->
<div id="header-top-left" class="clearfix">

```

```

        <div class="region region-header-top-left">
            <div
            id="block-menu-secondary-menu" class="block block-menu clearfix">

                <div class="content">
                    <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
                    <li class="leaf"><a href="/blog" title="">From the Board</a></li>
                    <li class="leaf"><a href="/contact" title="">Contact</a></li>
                    <li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
                    </ul> </div>
                </div>
            </div>
            <!-- EOF:#header-top-left -->
        </div>

        <div class="col-md-4">
            <!-- #header-top-right -->
            <div id="header-top-right" class="clearfix">
                <div class="region region-header-top-right">
                    <div id="block-search-form" class="block block-search clearfix">

                        <div class="content">
                            <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
                            8"><div><div class="container-inline">
                                <h2 class="element-invisible">Search form</h2>
                                <div class="form-item form-type-textfield form-item-search-block-form">
                                    <input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
                                    (this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
                                    block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
                                    class="form-text" />
                                </div>
                                <div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
                                    name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
                                    3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
                                    <input type="hidden" name="form_id" value="search_block_form" />
                                </div>
                            </div></form> </div>
                        </div>
                    </div>
                <!-- EOF:#header-top-right -->
            </div>

        </div>
    </div>

```

```

        <!-- EOF: #header-top-inside
-->

    </div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

        <!-- #header-inside -->
        <div id="header-inside" class="clearfix">
            <div class="row">
                <div class="col-md-8">

                    <div id="logo">
                        <a href="/" title="Home" rel="home">  </a>
                    </div>

                    <div id="site-name">
                        <a href="/" title="Home">Open Source Initiative</a>
                    </div>

                </div>

                <div class="col-md-4">

            </div>
        </div>
    </div>
<!-- EOF: #header-inside -->

</div>
</header>
<!-- EOF:
#header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
    <div class="container">

        <!-- #main-navigation-inside -->
        <div id="main-navigation-inside" class="clearfix">
            <div class="row">

```

```
<div class="col-md-12">
  <nav role="navigation">
    <div class="region region-navigation">
      <div id="block-superfish-1" class="block block-superfish clearfix">
```

```
<div class="content">
```

```
<ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History
of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-
total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors"
class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board -
Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a
href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-3">Minutes</a></li><li id="menu-185-
1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/organization" title="These portfolios represent
the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a></li><li id="menu-95-1"
class="middle even sf-item-4 sf-depth-3 sf-no-children"><a href="/articles-of-incorporation" title="OSI
incorporation record" class="sf-depth-3">Articles
of Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-
depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-
3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a
href="/conflict_of_interest_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-
1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2
menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li
id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines"
title="OSI's Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1"
class="last even sf-item-2 sf-depth-3
sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo"
class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1" class="last even sf-item-4 sf-depth-2
sf-no-children"><a href="/ToS" title="Rules for posting content on this site" class="sf-depth-2">Terms of
Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-
parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1
menuparent">Licenses</a><ul><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-
parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes
an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a><ul><li id="menu-62-1"
class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with
explanations and rationale interspersed."
class="sf-depth-3">OSD - Annotated</a></li></ul></li><li id="menu-77-1" class="middle even sf-item-2 sf-
depth-2 sf-no-children"><a href="/licenses/category" title="Licenses by Category" class="sf-depth-2">Licenses by
Category</a></li><li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a
href="/licenses/alphabetical" title="Licenses that are approved by the OSI as conforming to the OSD" class="sf-
depth-2">Licenses by Name</a></li><li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-
2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/approval" title="Certifying licences as OSD-
```

compliant" class="sf-depth-2 menuparent">License Review Process<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a

```
href="/store" class="sf-depth-2">OSI Store</a></li></ul></li><li id="menu-1840-1" class="middle odd sf-item-5
sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources"
title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources</a><ul><li id="menu-
342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions
about open source and about the OSI." class="sf-depth-2">FAQ</a></li><li id="menu-38-1" class="middle even sf-
item-2 sf-depth-2 sf-no-children"><a
href="/blog" title="A group blog / aggregation point for OSI Board Member blogs" class="sf-depth-2">OSI Board
Blog</a></li><li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-
single-children-2 menuparent"><a href="/help" title="Resources for questions and further exploration" class="sf-
depth-2 menuparent">Getting Help</a><ul><li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/links" title="Links and References to Open Source" class="sf-depth-
3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a
href="/advocacy/case_for_business.php" title="How to advocate Open Source to businesses" class="sf-depth-
3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even sf-item-4 sf-
depth-2 sf-no-children"><a href="/working_groups" class="sf-depth-2">Working Groups</a></li><li id="menu-
12-1" class="last odd sf-item-5 sf-depth-2
sf-no-children"><a href="/osi-open-source-education" title="OSI&#039;s Open Source Education Initiative and
Activities" class="sf-depth-2">Open Source Education</a></li></ul></li><li id="menu-1844-1" class="last even
sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/news"
title="Page dedicated to the latest news and events." class="sf-depth-1 menuparent">News & Events</a><ul><li
id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of
newsletters" class="sf-depth-2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2
sf-no-children"><a href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
</div>
</div>
</div>
</div>
</div>
<!-- EOF: #main-navigation-inside -->
</div>
</div>
<!-- EOF: #main-navigation -->
<!-- #page -->
<div id="page"
class="clearfix">
<!-- #main-content -->
<div id="main-content">
<div class="container">
<!-- #messages-console -->
<!-- EOF: #messages-console -->
```

```

<div class="row">

  <section class="col-md-12">

    <!-- #main -->
    <div id="main" class="clearfix">

      <!-- EOF:#content-wrapper -->
      <div id="content-wrapper">

        <h1 class="page-title">The MIT License</h1>

        <!-- #tabs -->
        <div class="tabs">

        </div>
        <!-- EOF: #tabs -->

        <!-- #action links -->
        <!-- EOF: #action links -->

        <div class="region region-content">
        <div id="block-system-main" class="block block-system clearfix">

<div class="content">
  <article id="node-66" class="node node-page clearfix">

<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: MIT
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>MIT License</b></button>

<p id="demo"></p>

<script>
<!--//--><![CDATA[// ><!--

```

```

function myFunction() {
    var x;
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community,
it does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
        x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal<br><a
href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
    } else {
        x = " ";
    }
    document.getElementById("demo").innerHTML = x;
}

//--><![]]>
</script></div>

```

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</div></div></div> </div>


```

</article> </div>
</div>
</div>

    </div>
    <!-- EOF:#content-wrapper -->

    </div>
    <!-- EOF:#main -->

</section>

</div>

</div>
</div>
<!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

              <div class="region region-footer">
                <div id="block-block-11" class="block block-block clearfix">

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

```

```
<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;"></a>
```

```
<script id="fbwiuwz">
<!--><![CDATA[><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&url=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.insertBefore(f,s);})('fbwiuwz');
//><![>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="..ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
<script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--><![CDATA[><!--
//><![>
</script><script type="text/javascript">
```

```
<!----><![CDATA[// ><!--  
  
_uacct = "UA-3916956-1";  
urchinTracker();  
  
!--><!]]>  
</script> </div>  
</div>  
</div>  
  
    </div>  
    <!-- EOF: #subfooter-left -->  
    </div>  
    </div>  
</div>  
<!-- EOF: #subfooter-inside -->  
  
    </div>  
</footer>  
<!-- EOF:#subfooter -->  
</body>  
</html>
```

1.11 commons-io 1.3.2

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1.12 httpcomponents-core 4.3.2

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jar/com/thoughtworks/paranamer/PositionalParanamer.java

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jar/com/thoughtworks/paranamer/NullParanamer.java
* /opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-
jar/com/thoughtworks/paranamer/AdaptiveParanamer.java
*
/opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-
jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java
* /opt/cola/permits/161214140_1695312241.3082175/0/paranamer-2-8-sources-
jar/com/thoughtworks/paranamer/CachingParanamer.java

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jar/org/jetbrains/annotations/Nullable.java
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jar/org/intellij/lang/annotations/JdkConstants.java
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jar/org/jetbrains/annotations/NotNull.java
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jar/org/intellij/lang/annotations/MagicConstant.java

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

1.16 jaxb-core 2.3.0

1.17 failureaccess 1.0.1

1.18 hk2-utils 2.5.0

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* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/SuspendResumeLock.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/util/JavassistProxyFactory.java

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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1.31 fonts-dejavu 2.37-1

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\$Id\$

1.32 jaxb-api 2.3.1

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1.34 jopt-simple 5.0.4

1.35 saaj 1.3

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1.36 pwauth 2.3.11-0.2

1.37 xerces-j 2.7.1

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1.38 afero 1.1.2

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1.39 golang-protobuf-extensions 1.0.1

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1.42 commons-beanutils 1.9.4

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1.47 bean-validation-api 2.0.1.Final

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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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1.49 net-tools 1.60+git20180626.aebd88e-1ubuntu1

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1.51 coreutils 8.30-3ubuntu2

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1.52 libxdmcp 1.1.3-0ubuntu1

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include/bsd/timeconv.h
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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
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src/merge.c
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src/arc4random_openbsd.h

src/arc4random_uniform.c

src/arc4random_unix.h

src/arc4random_win.h

src/closefrom.c

src/getentropy_aix.c

src/getentropy_bsd.c

src/getentropy_hpux.c

src/getentropy_hurd.c

src/getentropy_linux.c

src/getentropy_osx.c

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src/hash/md5.c

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src/hash/helper.c

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```
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1.57 linux-atm 2.5.1-4

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of
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/*

* Marko Kiiskila carnil@cs.tut.fi

*

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1.63 slf4j 1.7.26

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  <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>

    <div id="content">
```

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1.64 jansson 2.12-1build1

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1.67 giflib 5.2.1

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1.68 gpm 1.20.7-5

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1.69 zap 1.13.0

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1.70 gorilla 1.7.3

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1.71 kr-fs 0.1.0

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1.72 libxrender 0.9.10-1

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1.73 libxtst 1.2.3-1

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1.74 python-certifi 2019.11.28

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1.75 jboss-logging 3.4.1.Final

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1.78 go-colortext 1.0.0

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1.79 flowrate 0.0.0-20140419014527-cca7078d478f

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1.80 pyasn1-modules 0.2.8

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1.81 slf4j 1.7.30

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1.82 iconv 2.31

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```
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```
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1.88 d-conf 0.36.0-1

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1.94 mawk 1.3.4.20200120-2

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1.95 libcanberra 0.30-7ubuntu1

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1.96 libogg 1.3.4-0ubuntu1

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To: Ron <ron@debian.org>
Cc: Christopher Montgomery <monty@xiph.org>,
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1.97 iproute 5.5.0-1ubuntu1

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1.99 libxcb 1.14-2

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section 10

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1.104 vixie-cron 3.0pl1-136ubuntu1

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*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/misc.c
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.c
```

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

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3
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.\" */
.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"
```

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.1
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* Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/compat.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/pathnames.h
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/externs.h
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```

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

Found in path(s):

```
*
/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.8
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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/man1, 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.

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL

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*

* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

*/

Found in path(s):

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# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
# */
```

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 \$

Found in path(s):

* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/README

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```
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.\" */  
.\"  
.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $  
.\"
```

Found in path(s):

*

/opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/crontab.5

1.105 rcrowley-go-metrics 0.0.0- 20190706150252-9beb055b7962

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1.106 wheel 0.34.2

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1.107 go-grpc-prometheus 1.2.0

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1.108 quartz 2.3.2

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

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#

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#

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#

git shortlog -se | awk '{print \$2 " " \$3 " " \$4}'

#

and do appropriate cleanups.

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`compiler/cpp/src/generate/t_rb_generator.cc`
`compiler/cpp/src/generate/t_st_generator.cc`
`compiler/cpp/src/generate/t_xsd_generator.cc`
`compiler/cpp/src/main.cc`
`compiler/cpp/src/parse/t_field.h`
`compiler/cpp/src/parse/t_program.h`
`compiler/cpp/src/platform.h`
`compiler/cpp/src/thriftl.ll`
`compiler/cpp/src/thrift.yy`
`lib/csharp/src/Protocol/TBinaryProtocol.cs`

lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
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lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
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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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1.111 commons-lang3 3.8.1

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1.112 gods 1.12.0

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1.117 xiang90-probing 0.0.0-20190116061207-43a291ad63a2

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1.118 go-humanize 0.0.0-20171111073723-bb3d318650d4

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1.119 gorilla 1.4.2

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1.120 gopsutil 2.20.5+incompatible

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1.121 libpsl 0.21.0-1ubuntu1

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1.122 libtool 2.4.6-14

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1.124 xorg 7.7+19ubuntu14

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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```
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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.129 leveldb 0.12

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LookupKey.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/MMapLogWriter.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/FileMetaData.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/VariableLengthQuantity.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogWriter.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/util/AbstractSeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogMonitors.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LogMonitor.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/LookupResult.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/DbConstants.java
*
```

/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Filename.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/FileChannelLogWriter.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Level.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/table/UserComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/LogReader.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/PureJavaCrc32C.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SeekingIteratorAdapter.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/Level0Iterator.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/LevelIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/ValueType.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/Slice.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SnapshotImpl.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/Iq80DBFactory.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/InternalUserComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/WriteBatchImpl.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SnapshotSeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/LogConstants.java
*
/opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/DynamicSliceOutput.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/VersionEditTag.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/VersionEdit.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/Slices.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/util/Snappy.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-jar/org/iq80/leveldb/impl/SeekingIterable.java

* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/impl/DbLock.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/impl/LogChunkType.java
 *
 /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/impl/DbImpl.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/util/Finalizer.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/util/ByteBufferSupport.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/table/BlockBuilder.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/impl/InternalKey.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/table/BlockEntry.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/table/FileChannelTable.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/impl/Level0.java
 *
 /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/impl/MemTable.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/util/SizeOf.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/util/SliceComparator.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
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 jar/org/iq80/leveldb/table/MMapTable.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/table/Footer.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/util/BasicSliceOutput.java
 *
 /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/util/FileUtils.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/table/BlockTrailer.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
 jar/org/iq80/leveldb/table/TableBuilder.java
 * /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-

jar/org/iq80/leveldb/impl/SequenceNumber.java
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* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/Table.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
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* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
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* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
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* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/VersionSet.java
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jar/org/iq80/leveldb/table/Block.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
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jar/org/iq80/leveldb/impl/SeekingIterator.java
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jar/org/iq80/leveldb/impl/Version.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/table/BytewiseComparator.java
* /opt/ws_local/PERMITS_SQL/1070621161_1594725483.79/0/leveldb-0-12-sources-
jar/org/iq80/leveldb/impl/InternalEntry.java

1.130 activation 1.1.1

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1.131 adduser 3.118ubuntu2

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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Upstream-Contact: Anibal Monsalve Salazar <anibal@debian.org>

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1.133 debianutils 4.9.1

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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1.136 sed 4.7-1

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The

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1.137 libffi 3.3-4

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```

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1.138 base-passwd 3.5.47

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

1.140 cracklib 2.9.6-3.2

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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 installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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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.

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^L

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

That's all there is to it!

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 191Gxtp020623
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-56FBFE6E9F@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

1.141 go-md2man 2.0.0

1.141.1 Available under license :

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1.142 less 551-1ubuntu0.1

1.142.1 Available under license :

Less License

Less

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Version 3, 29 June 2007

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1.143 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:

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From strings/apr_strnatcmp.c,

include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.

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From

strings/apr_snprintf.c:

*

* cvt - IEEE floating point formatting routines.

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1.144 lua 5.2.4-1.1build3

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1.145 libxi 1.7.10-0ubuntu1

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1.146 cdebconf 0.251ubuntu1

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1.147 tcl 8.6.10+dfsg-1

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1.148 oniguruma 6.9.4-1

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1.149 commons-io 2.7

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1.150 bouncycastle-fips 1.0.3

1.150.1 Available under license :

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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):

```
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-
jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
```

1.151 jctools-core 3.1.0

1.151.1 Available under license :

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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>
    </plugins>
  </build>
</project>
```

```

<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
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>
```

```
<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>
```

```
<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/kay</url>
  </developer>
  <developer>
    <url>https://github.com/franz1981</url>
  </developer>
</developers>
```

```
<prerequisites>
  <maven>3.5.0</maven>
</prerequisites>
```

```
<properties>
```

```
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found

in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpMCAtomicArrayQueue.java

*

/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MPMCAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/LinkedListAtomicNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpseLinkedListQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Preference.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SupportsIterator.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseSpseLinkedListAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpseAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpseLinkedListAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpmcArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeLongArrayAccess.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/maps/NonBlockingHashMap.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
 *
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/maps/NonBlockingIdentityHashMap.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/BaseLinkedQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/util/InternalAPI.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/maps/NonBlockingHashSet.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/util/Pow2.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/maps/ConcurrentAutoTable.java
 *
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/MpscUnboundedXaddChunk.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/LinkedQueueNode.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/SpSCUnboundedArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/util/PortableJvmInfo.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/maps/NonBlockingSetInt.java
 *
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
 jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
 * /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/QueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCGrowAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

1.152 commons-lang3 3.1

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1.153 jackson-jaxrs-base 2.9.9

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1.154 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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1.156 logrus 1.7.0

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1.158 httpcomponents-client 4.5.13

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

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```
Gnomovision version 69, Copyright (C) 19yy 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.

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

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1.163 idna 2.8

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Found in path(s):

```
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
```

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

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
import io, sys
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```

'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.164 appdirs 1.4.3

1.164.1 Available under license :

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1.165 pyparsing 2.4.6

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1.166 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>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/PKG-INFO
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO
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License: <http://snmplabs.com/pyasn1/license.html>

Found in path(s):

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py

```

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_constraint.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedval.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/constraint.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/base.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedval.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/base.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/setup.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_tag.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_useful.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/string.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/univ.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/compat/test_octets.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/eoo.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/calling.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/ber/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/pyasn1/codec/native/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/der/encoder.py

```

* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/cer/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_univ.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/cer/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/der/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/tag.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/char.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/binary.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/type/opentype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/octets.py
*
/opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/type/test_namedtype.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-
0.4.8/tests/codec/native/test_encoder.py

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

- *
Generic implementation of ASN.1 types (X.208)
- * Standards compliant BER/CER/DER codecs
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 2.4 up to Python 3.7
- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
 OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
 DefaultedNamedType(
 'house',
 Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
```
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):


```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>> print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If

something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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=====

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ASN.1 library for Python

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Abstract Syntax Notation One (ASN.1

<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>_) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>>_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the

first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- * Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- * Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- * Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- * Signaling standards for the public switched telephone network (SS7 family)
- * Network management standards (SNMP, CMIP)
- * Directory standards (X.500 family, LDAP)
- * Public Key Infrastructure standards (X.509, etc.)
- * PBX control (CSTA)
- * IP-based Videoconferencing (H.323 family)
- * Biometrics (BIP, CBEFF, ACBio)
- * Intelligent transportation (SAE J2735)
- * Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation

```
.. toctree::  
    :maxdepth: 2
```

[/pyasn1/contents](#)

Use case

```
.. toctree::  
    :maxdepth: 2
```

[/example-use-case](#)

Download & Install

```
.. toctree::  
    :maxdepth: 2
```

[/download](#)

Changes

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..  
toctree::  
    :maxdepth: 1
```

[/changelog](#)

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    :maxdepth: 2
```

```
/license
```

Getting help

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`_`
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`_` at GitHub.
Alternatively, you could ask for help at
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`_`
or search
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`_`
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome books:

- * `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`_` by Olivier Dubuisson
- * `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- * `ITU standards`
<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- * `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<http://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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- * /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

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1.169 viper 1.7.1

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1.170 jackson-xc 2.9.8

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1.173 cron 3.0pl1-136ubuntu1

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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/man1,
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.

Found in path(s):

```
* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL
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```

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*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
*
/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
*/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c

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*

* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

*/

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.\\"/>*

.\\"/>\$Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp \$

.\"

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*

/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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.\" */

.\"

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

.\"

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*

/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1

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

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

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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 message 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 \$

Found in path(s):

* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

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

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*

* Send bug reports, bug fixes, enhancements, requests, flames, etc., and

* I'll try to keep a version up to date. I can be reached as follows:

* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

*/

Found in path(s):

* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h

* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h

*

/opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h

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* /opt/cola/permits/1125565035_1613603088.1/0/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/Makefile

1.174 attr 2.4.48-5

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Version 2.1, February 1999

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1.175 diffutils 3.7-3

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1.177 mime-support 3.64ubuntu1

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1.178 shared-mime-info 1.15-1

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1.180 okhttp 3.12.12

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/InternalCache.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/NamedRunnable.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Request.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteDatabase.java
*
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2.java
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Found in path(s):

* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/ConnectionShutdownException.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/WebSocket.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/Jdk9Platform.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/RealWebSocket.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/CallServerInterceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/UnrepeatableRequestBody.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/WebSocketListener.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/FileOperator.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/Relay.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/AndroidPlatform.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/StreamResetException.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicTrustRootIndex.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RealInterceptorChain.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Writer.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Connection.java
*
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Stream.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpDate.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Http2Reader.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Util.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpCodec.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpHeaders.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Address.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http1/Http1Codec.java
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```
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/http/BridgeInterceptor.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/tls/DistinguishedNameParser.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/tls/CertificateChainCleaner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/connection/ConnectInterceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/connection/RealConnection.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/tls/OkHostnameVerifier.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Connection.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionPool.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/cache/CacheInterceptor.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Headers.java
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```
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Interceptor.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ConnectionSpec.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/ws/WebSocketReader.java
*
```

/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CertificatePinner.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketWriter.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/ws/WebSocketProtocol.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Call.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Protocol.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Credentials.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/FormBody.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Challenge.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/ResponseBody.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/Header.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/RealResponseBody.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/TlsVersion.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheRequest.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http2/PushObserver.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/RequestBody.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CipherSuite.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Version.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/ConscryptPlatform.java
*
/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/MultipartBody.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Internal.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/RealCall.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/http/HttpMethod.java

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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Dns.java

* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-

jar/okhttp3/internal/connection/RouteSelector.java

*

/opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/OkHttpClient.java

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1.187 markupsafe 1.1.0-1build2

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* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/_compat.py

* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/__init__.py

* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/markupsafe/_native.py

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Metadata-Version: 1.2

Name: MarkupSafe

Version: 1.1.0

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://www.palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets Team

Maintainer-email: contact@palletsprojects.com

License: BSD

Project-URL: Documentation, <https://markupsafe.palletsprojects.com/>

Project-URL: Code, <https://github.com/pallets/markupsafe>

Project-URL: Issue tracker, <https://github.com/pallets/markupsafe/issues>

Description: MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

Install and update using ``pip``:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. _pip: <https://pip.pypa.io/en/stable/quickstart/>

Examples

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape
>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup(u'&lt;script&gt;alert(document.cookie);&lt;/script&gt;')
>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup('<strong>Hello</strong>')
Markup('<strong>hello</strong>')
>>> escape(Markup('<strong>Hello</strong>'))
Markup('<strong>hello</strong>')
>>> # Markup is a text subclass (str on Python 3, unicode on Python 2)
>>> # methods and operators escape
```

their arguments

```
>>> template = Markup("Hello <em>%s</em>")
>>> template % "World"
Markup('Hello <em>&#34;World&#34;</em>')
```

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.. _please donate today: <https://psfmember.org/civicrm/contribute/transact?reset=1&id=20>

Links

- * Website: <https://www.palletsprojects.com/p/markupsafe/>
- * Documentation: <https://markupsafe.palletsprojects.com/>
- * License: `BSD <<https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>>`_
- * Releases: <https://pypi.org/project/MarkupSafe/>
- * Code: <https://github.com/pallets/markupsafe>
- *

Issue tracker: <https://github.com/pallets/markupsafe/issues>

- * Test status:
 - * Linux, Mac: <https://travis-ci.org/pallets/markupsafe>
 - * Windows: <https://ci.appveyor.com/project/pallets/markupsafe>
- * Test coverage: <https://codecov.io/gh/pallets/markupsafe>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Web Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: 3.7

Classifier: Topic :: Internet

:: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=2.7,!<3.0.*,!<3.1.*,!<3.2.*,!<3.3.*

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* /opt/cola/permits/1128978950_1612138213.64/0/markupsafe-1-1-0-orig-1-tar-gz/MarkupSafe-1.1.0/src/MarkupSafe.egg-info/PKG-INFO

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/**

* markupsafe._speedups

* ~~~~~

*

* C implementation of escaping for better performance. Used instead of

* the native Python implementation when compiled.

*

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1.188 init-system-helpers 1.57

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Files: debian/*

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Files: script/invoke-rc.d man8/invoke-rc.d.rst

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1.189 httpcomponents-core 4.4.13

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1.190 commons-lang3 2.6

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Found in path(s):

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/AvalonLogger.java
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/WeakHashtable.java
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Found in path(s):

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/package.html

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogConfigurationException.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java

*

/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/Log.java
```

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Found in path(s):

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

1.192 bcel 2.7.2

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```
/**
```

* 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):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StopParseException.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/QueuedEvents.java

*

/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/XslAttribute.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/NodeLocator.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/runtime/MessageHandler.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/KeyIndex.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/ElemForEach.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/res/XPATHErrorResources_zh.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/CurrentCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/When.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/ElemWhen.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StylesheetPIHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncSubstring.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncConcat.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/Function.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/trax/XSLTCSource.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/AttributeIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StringToIntTable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/SerializerMessages_hu.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_zh.java

*

/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java

*

/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/StringToStringTableVector.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/PrefixResolver.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/StringArrayWrapper.java

*

/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/transformer/KeyIterator.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/DOM2Helper.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/Hashtable.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/dom/UnionIterator.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/dom/NthIterator.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/res/XSLTErrorResources_sk.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/XSLTC.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage_pt_BR.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/dtm/ref/DTMNodeProxy.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/serializer/ElemContext.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/XPathProcessorException.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_zh_TW.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/Utils/res/XResources_he.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/functions/FuncRound.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/IntExpr.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/Fallback.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage_ja.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/DOMOrder.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/LangCall.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/extensions/ExtensionsTable.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/utils/res/CharArrayWrapper.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/CastExpr.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage_pl.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/TransletException.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/utils/StringBufferPool.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/serializer/ToSAXHandler.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/res/XPATHErrorResources_ca.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/res/XSLTErrorsResources_pl.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/serializer/utils/SerializerMessages.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/templates/AVTPartXPath.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/jaxp/XPathImpl.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xml/res/XMLErrorResources_zh.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/NameCall.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/Comment.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage_zh.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/templates/AbsPathChecker.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/ExpressionNode.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/functions/FuncSystemProperty.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xalan/xsltc/compiler/TransletOutput.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
 jar/org/apache/xpath/functions/FuncExtFunctionAvailable.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

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jar/org/apache/xalan/res/XSLTErrorResources_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/StylesheetComposed.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_it.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/domapi/XPathNSResolverImpl.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/res/XPATHErrorResources_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/Util.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/NumberType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FunctionOneArg.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ElementAvailableCall.java
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jar/org/apache/xalan/processor/ProcessorCharacters.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gte.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorDecimalFormat.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XSLInfiniteLoopException.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ko.java
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 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/OutputProperties.java
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 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/SerializerMessage s_pl.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/Expression.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/TransformStateSetter.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathEvaluatorImpl.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionCall.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/RTFIterator.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeListBase.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/LocPathIterator.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_pt_BR.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorInclude.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/ObjectPool.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Message.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/XMLString.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionDecl.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/WrapperdRuntimeException.java
 *

/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHMessages.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage_ca.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/BoolStack.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_it.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtElementAvailable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ArgumentList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/DTMXRTreeFrag.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AnccestorPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/EqualityExpr.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildTestIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringComparable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Expression.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

```

jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/ApplyImports.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/lib/sql/ConnectionPoolManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorAttributeSet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Quo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/NSInfo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/dom3/DOMConstants.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/ExpandedNameTable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/QName.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/GenerateIdCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/TransformSnapshot.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/utils/SerializerMessages_ca.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/lib/sql/QueryParameter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorOutputElem.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Param.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/ObjectFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/res/XPATHErrorResources_ru.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/SlotAllocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Number.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/res/XResources_el.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/Stylesheet.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIteratorSimple.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_TW.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemElement.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ConcatCall.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_de.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ResultNameSpace.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorLRE.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_fr.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/ObjectFactory.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_A.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_fr.java
 *
 /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_cs.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMConfigurationException.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XUnresolvedVariable.java
 * /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

```
jar/org/apache/xpath/functions/FuncFalse.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_sl.java
*
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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```

```
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* limitations under the License.
*/
/*
* $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
 * completed, 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):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

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```
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
```



```

*/
/*
* $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
* completed, 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):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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*/

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/XPathLexer.java

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

Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/FunctionTable.java

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*/
/**

* 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):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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```

* limitations under the License.
*/

/*
* $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;
    _xslt = 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) {
    _xslt.setMultiDocument(flag);
}

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

public void setHasIdCall(boolean flag) {
    _xslt.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; :};

```

```

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

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

  | AbbreviatedAbsolutePath: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);
}
};

```

AbbreviatedAbsolutePath ::= 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.DECENDANT); ;}

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

| 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, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
    RESULT = new CeilingCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
    RESULT = new ElementAvailableCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, arg1);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "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):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.cup
```

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```
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jar/org/apache/xml/serializer/Encodings.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/XMLEntities.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
```

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
```

```
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
```

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```

```
*/
```

```
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
```

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*/

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

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/ToHTMLStream.java

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Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java

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Found in path(s):

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
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*/


```
/**
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */
```

Found in path(s):

```
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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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
 * completed, 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));

}

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

```

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```

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```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* 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-\uFDFF\uFF00-\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):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex
```

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```

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

```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/compiler/Keywords.java
```

1.193 commons-cli 1.4

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Source Code

The project maintains the following source code repositories:

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

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1.195 commons-codec 1.11

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

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

*
/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/MemberValue.java
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jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
jar/javassist/bytecode/annotation/LongMemberValue.java

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 * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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 * /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-
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/opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtClass.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/NotFoundException.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/CtField.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LocalVariableTypeAttribute.java
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1.197 classmate 1.5.1

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* Brian Langel

1.198 x-text 0.3.3

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1.199 zap 1.15.0

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1.202 commons-lang3 3.7

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1.205 xml-commons-resolver 1.2

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1.207 grpc-go 1.26.0

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1.208 zap 1.16.0

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1.209 jersey-entity-filtering 2.28

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1.215 rocksdb 1.1.8

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- * Tatu Saloranta
- * Providing benchmark suite
- * Alec Wysoker
- * Performance and memory usage improvement

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1.217 asm 3.2

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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java

* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassWriter.java

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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassReader.java
*
/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/ASMifierClassVisitor.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/MemberNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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/opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
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jar/org/objectweb/asm/xml/SAXClassAdapter.java
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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* /opt/cola/permits/1136493993_1613774733.35/0/asm-all-3-2-sources-2-
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/**

* Abstract the invocation of a cache operation.

*

* <p>Does not provide a way to transmit checked exceptions but

* provide a special exception that should be used to wrap any

* exception that was thrown by the underlying invocation.

* Callers are expected to handle this issue type specifically.

*

* @author Stephane Nicoll

* @since 4.1

*/

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- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/RemoteTimeoutException.java
- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/EventExpressionRootObject.java
- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ImportResource.java
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- /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/SmartLifecycle.java
- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationEvent.java
- * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
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jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
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jar/org/springframework/context/PayloadApplicationEvent.java
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No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java

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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/ui/ExtendedModelMap.java
*
/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/support/SimpleCacheManager.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 jar/org/springframework/validation/BindingResult.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactory.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/support/ApplicationObjectSupport.java

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/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/weblogic/WebLogicClassLoaderAdapter.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/BeanPropertyBindingResult.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/websphere/WebSphereClassLoaderAdapter.java

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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheableOperation.java

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/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/expression/CachedExpressionEvaluator.java

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jar/org/springframework/stereotype/Service.java
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
*
/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/SchedulingAwareRunnable.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/event/ContextClosedEvent.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/Phased.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/assembly/MBeanInfoAssembler.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/MBeanExportException.java
*
/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/access/InvalidInvocationException.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/TriggerContext.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/validation/BindingResultUtils.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/JmxException.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/access/MBeanConnectFailureException.java
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/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/NoSuchMessageException.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/ApplicationContextHolder.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
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/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/event/ContextStoppedEvent.java

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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/Formatter.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/SmartValidator.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/Trigger.java
*

/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/HierarchicalMessageSource.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/format/FormatterRegistrar.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/MapBindingResult.java
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 */
/**
 * { @link FactoryBean } that obtains a WebSphere { @link javax.management.MBeanServer }
 * reference through WebSphere's proprietary { @code AdminServiceFactory } API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the { @code MBeanServer } for bean references.
 * This FactoryBean is a direct alternative
 * to { @link MBeanServerFactoryBean },
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * <p>See the javadocs for WebSphere's
 * <a href="http://bit.ly/UzccDt">{ @code AdminServiceFactory }</a>
 * and <a href="http://bit.ly/TR1X2r">{ @code MBeanFactory }</a>.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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Found in path(s):

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 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/ui/ModelMapExtensions.kt
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/ui/ModelExtensions.kt

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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationContextInitializer.java
*

/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/BeanMethod.java

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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
*
/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/annotation/Async.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/support/RemoteInvocation.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/PropertySource.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/interceptor/CacheResolver.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/RemoteAccessException.java
*
/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
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 jar/org/springframework/context/annotation/ImportRegistry.java
 *
 /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/format/datetime/standard/DateTimeConverters.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/format/datetime/standard/PeriodFormatter.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
 *
 /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/context/ApplicationListener.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/validation/AbstractErrors.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/context/annotation/AutoProxyRegistrar.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
 * /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-
 jar/org/springframework/scheduling/TaskScheduler.java

* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
*
/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
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* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
*
/opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1137148469_1614022957.4/0/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* { @linkplain #value specified conditions } match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see { @link Condition } for details).
*
* <p>The
* { @code @Conditional } annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* { @code @Component }, including { @link Configuration @Configuration } classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
* </ul>
*
* <p>If a { @code @Configuration } class is marked with { @code @Conditional },
* all of the { @code @Bean } methods, { @link Import @Import } annotations, and
* { @link ComponentScan @ComponentScan } annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* { @code @Conditional } itself is not declared as
* { @link java.lang.annotation.Inherited
* @Inherited }; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* { @code @Conditional } must not be declared as { @code @Inherited }.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

```

Found in path(s):

1.219 libapache2-mod-authnz-external 3.3.2-0.1

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*
*/

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* /opt/cola/permits/1137148391_1614022750.79/0/libapache2-mod-authnz-external-3-3-2-orig-1-tar-
gz/mod_authnz_external-3.3.2/mod_authnz_external.c

1.220 libapache2-mod-authz-unixgroup 1.1.0-0.1

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1.222 visual-studio-runtime 14.00.24210.0

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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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1.223 telnetd-x 2.1.1

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1.224 snappy-java 1.1.8.4

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- * Providing benchmark suite
- * Alec Wysoker
- * Performance and memory usage improvement

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1.225 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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1.226 python-idna 2.8-1

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```
            'Programming Language :: Python :: 3',
```

```
            'Programming Language :: Python :: 3.4',
```

```
            'Programming Language :: Python :: 3.5',
```

```
            'Programming Language :: Python :: 3.6',
```

```

    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/setup.py

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Metadata-Version: 1.2

Name: idna

Version: 2.8

Summary: Internationalized Domain Names in Applications (IDNA)

Home-page: <https://github.com/kjd/idna>

Author: Kim Davies

Author-email: kim@cynosure.com.au

License: BSD-like

Description: Internationalized Domain Names in Applications (IDNA)

=====

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in `RFC 5891 <<http://tools.ietf.org/html/rfc5891>>`_. This is the latest version of the protocol and is sometimes referred to as “IDNA 2008”.

This library also provides support for Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`_.

This acts as a suitable replacement for the “encodings.idna” module that comes with the Python standard library, but only supports the old, deprecated IDNA specification (`RFC 3490 <<http://tools.ietf.org/html/rfc3490>>`_).

Basic functions are simply executed:

```
.. code-block:: pycon
```

```

# Python 3
>>> import idna
>>> idna.encode('.')

```

```
b'xn--eckwd4c7c.xn--zckzah'  
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))  
.  
  
# Python 2  
>>> import idna  
>>> idna.encode(u'.')  
'xn--eckwd4c7c.xn--zckzah'  
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')  
.
```

Packages

The latest tagged release version is published in the PyPI repository:

```
.. image:: https://badge.fury.io/py/idna.svg  
:target: http://badge.fury.io/py/idna
```

Installation

To install this library,
you can use pip:

```
.. code-block:: bash  
  
$ pip install idna
```

Alternatively, you can install the package using the bundled setup script:

```
.. code-block:: bash  
  
$ python setup.py install
```

This library works with Python 2.7 and Python 3.4 or later.

Usage

For typical usage, the ``encode`` and ``decode`` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

```
.. code-block:: pycon  
  
# Python 3
```

```
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.
```

You may use the codec encoding and decoding methods using the ``idna.codec`` module:

.. code-block:: pycon

```
# Python 2
>>> import idna.codec
>>> print u'.'.encode('idna')
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel`` functions if necessary:

.. code-block:: pycon

```
# Python 2
>>> idna.alabel(u")
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)

+++++

As described in `RFC 5895 <<http://tools.ietf.org/html/rfc5895>>`_, the IDNA specification no longer normalizes input from different potential ways a user may input a domain name. This functionality, known as a “mapping”, is now considered by the specification to be a local user-interface issue distinct from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode Consortium. Known as `Unicode IDNA Compatibility Processing <<http://unicode.org/reports/tr46/>>`_, it provides for both a regular mapping for typical applications, as well as a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL LETTER K* is not allowed (nor are capital letters in general). UTS 46 will convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon


```

# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen

```

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

```

# Python 2
>>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
'xn--knigsgsschen-lcb0w'

```

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

```

``encodings.idna`` Compatibility
+++++

```

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is

illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables used for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <<http://iana.org/>>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, 'Unicode IDNA Compatibility Processing' <<http://unicode.org/reports/tr46/>>.

The tests are run automatically on each commit at Travis CI:

.. image:: <https://travis-ci.org/kjd/idna.svg?branch=master>
:target: <https://travis-ci.org/kjd/idna>

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: Intended Audience :: System Administrators

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language

:: Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Topic :: Internet :: Name Service (DNS)

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Classifier: Topic :: Utilities

Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):

* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/idna.egg-info/PKG-INFO

* /opt/cola/permits/1138607654_1614296153.76/0/python-idna-2-8-orig-1-tar-gz/idna-2.8/PKG-INFO

1.227 alsa-topology-conf 1.2.2-1

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1.228 chardet 3.0.4-4build1

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1.229 liberror-perl 0.17029-1

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

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```
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```

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

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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.

*/

1.234 pcre 8.44

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THE BASIC LIBRARY FUNCTIONS

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1.235 libtasn 4.16.0-2

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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1.238 gorilla 1.8.0

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1.239 jline 2.14.6

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1.240 go-units 0.4.0

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1.241 lann-ps 0.0.0-20150810152359-62de8c46ede0

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1.242 ubuntu-keyring 2020.02.11.4

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1.243 tablewriter 0.0.5

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1.244 commons-lang3 3.12.0

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1.245 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba

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1.246 tacacs-plus 2.6

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1.247 python-pam 1.8.4

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1.248 tenacity 7.0.0

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1.249 cachecontrol 0.12.6

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1.250 urllib3 1.25.8

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Contributions to the urllib3 project

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/@WBRSRIBZDhBFXQB6/>>

* 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@ravello.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
- * Benjamin 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@gmail.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]

1.251 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.

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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 |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.3 | 3.2 | | | |
| 2012 | PSF | yes | | |

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- Chris McDonough, 2011/02/16

- Wichert Akkerman, 2012/02/02

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.2 | 2.1.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
| 2.1.3 | | | | |
| 2.1.2 | 2002 | PSF | yes | |
| 2.2.1 | 2.2 | 2002 | PSF | yes |
| 2.2.2 | 2.2.1 | 2002 | PSF | yes |
| 2.2.3 | 2.2.2 | 2003 | PSF | yes |
| 2.3 | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3 | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004 | PSF | yes |
| 2.3.5 | 2.3.4 | 2005 | PSF | yes |
| 2.4 | 2.3 | 2004 | PSF | yes |
| 2.4.1 | 2.4 | 2005 | PSF | yes |
| 2.4.2 | 2.4.1 | 2005 | PSF | yes |
| 2.4.3 | 2.4.2 | 2006 | PSF | yes |
| 2.4.4 | 2.4.3 | 2006 | PSF | yes |
| 2.5 | 2.4 | 2006 | PSF | yes |
| 2.5.1 | 2.5 | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |

| | | | | |
|-------|-------|------|-----|-----|
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
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| 2.7 | 2.6 | 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 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 |
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| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 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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(CA). These were automatically extracted from Mozilla's root certificates
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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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1.252 contextlib2 0.6.0

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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 that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 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 |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.3 | 3.2 | | | |
| 2012 | PSF | yes | | |

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1.253 msgpack 1.0.2

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1.255 zstd 1.4.1

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1.257 lz4 1.9.2-2ubuntu0.20.04.1

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1.258 python-stdlib-extensions 3.8.10- 0ubuntu1~20.04

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.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 '>'

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*

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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
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/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-

extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
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/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
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* /opt/cola/permits/1168963812_1622802919.99/0/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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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_msi.py
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extensions-3.8.2/3.8/Lib/distutils/cygwincompiler.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_msi.py
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/opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
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* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1168963812_1622802919.99/0/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py
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* /opt/cola/permits/1168963812_1622802919.99/0/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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1.259 markupsafe 2.0.1

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

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/* nettle-internal.c

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

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ARCFOUR

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CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Miller. Assembler for x86 and x86_64 by Niels Miller. Released under the LGPL.

.
CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

.
DES

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.
MD2

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.
MD4

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.

MD5

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SHA1

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SHA224, SHA256, SHA384, and SHA512

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The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

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Files: sha*

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Files: twofish*

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1999 J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>

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Files: testsuite/des-compat-test.c

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1.263 python-requests 2.26.0

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1.264 libuv 1.34.2-1ubuntu1.3

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The basic library functions are written in C and are freestanding.

Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

*/

[dialyzer]

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1.273 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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(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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=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.279 jcmtturner-gofork 1.0.0

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1.280 opentracing-contrib-go-observer 0.0.0-20170622124052-a52f23424492

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1.281 go.uber.org/atomic 1.6.0

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1.282 go-uber-org-multierr 1.5.0

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1.283 prometheus-common 0.9.1

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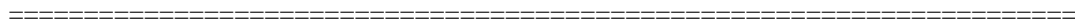
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1.289 liggitt-tabwriter 0.0.0-20181228230101-89fcab3d43de

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1.290 gofuzz 1.1.0

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1.291 builder 0.0.0-20180802200727-47ae307949d0

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1.292 go-difflib 1.0.0

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1.293 properties 1.8.5

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1.294 soheilhy-cmux 0.1.5

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1.295 x-net 0.0.0-20210614182718-04defd469f4e

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1.296 klauspost-compress 1.12.2

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1.310 x-crypto 0.0.0-20210616213533-5ff15b29337e

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1.311 go-openapi-jsonpointer 0.19.5

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1.312 blackfriday 2.0.1

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1.313 grpc-ecosystem-go-grpc-middleware

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1.314 zap 1.17.0

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1.315 xxhash 2.1.2

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1.316 go-openapi-swag 0.19.14

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1.317 netns 0.0.0-20210104183010-2eb08e3e575f

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1.318 msgp 1.1.6

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1.319 goautoneg 0.0.0-20191010083416-a7dc8b61c822

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1.320 sanitized-anchor-name 1.0.0

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1.321 zap 1.19.0

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1.322 prometheus-common 0.26.0

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1.323 google-go-cmp 0.5.5

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1.324 spf13-pflag 1.0.5

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1.325 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.326 x-errors 0.0.0-20200804184101-5ec99f83aff1

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1.327 google-uuid 1.3.0

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cd1

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1.328 soheilhy-cmux 0.1.4

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1.329 cidranger 1.0.2

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1.330 evanphx-json-patch 4.9.0+incompatible

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1.331 blackfriday 2.1.0

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1.332 mitchellh-mapstructure 1.1.2

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1.333 moby-locker 1.0.1

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1.334 prometheus-common 0.10.0

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1.339 docker-go-metrics 0.0.1

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1.340 fvbommel-sortorder 1.0.1

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1.341 bits-and-blooms-bitset 1.2.0

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1.342 x-sys 0.0.0-20201119102817-f84b799fce68

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1.343 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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1.344 go-sysconf 0.3.5

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1.345 easyjson 0.7.6

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1.346 gopsutil 3.21.4+incompatible

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1.347 go-asn1-ber-asn1-ber 1.5.1

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1.348 go-errors-errors 1.0.1

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1.349 go-test-deep 1.0.7

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1.350 go-ldap-ldap 3.2.4

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1.351 grpc-go 1.41.0

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1.352 openzipkin-zipkin-go 0.2.2

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

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

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1.355 go-errors-errors 1.2.0

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1.357 gopkg-in/ldap 2.5.1

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1.358 flag 1.7.4-pre

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1.359 golang-glog 0.0.0-20210429001901-424d2337a529

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

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1.361 go-errors-errors 1.0.2

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1.362 go-asn1-ber-asn1-ber 1.5.3

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1.363 pkg-sftp 1.13.0

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1.364 go.uber.org/atom 1.5.0

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1.365 lithammer-dedent 1.1.0

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1.366 fiorix-go-diameter 3.0.2+incompatible

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Seyi Ogunyemi <micrypt@users.noreply.github.com>

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1.367 ishidadawataru-sctp 0.0.0- 20210226210310-f2269e66cdee

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1.372 x-net 0.0.0-20210119194325- 5f4716e94777

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1.373 trylock 0.0.0-20191027065348- ff7e133a5c54

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1.374 eapache-channels 1.1.0

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

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1.376 moby-spdystream 0.2.0

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

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1.378 goleak 1.1.10

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1.379 prometheus-procfs 0.0.11

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1.380 clockwork 0.2.2

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Clockwork - a clock process to replace cron

=====

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

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

Quickstart

Create clock.rb:

```
require 'clockwork'
include Clockwork

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

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

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

Run it with the clockwork binary:

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

Use with queueing

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

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

```
require 'stalker'

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

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

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment, 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-scheduler)

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):

* /opt/cola/permits/1213082843_1634008352.31/0/clockwork-0-2-2-1-gem/data-tar-gz/README.md

1.381 go-uber-org-multierr 1.4.0

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1.383 testify 1.7.0

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1.393 golang-snappy 0.0.1

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1.395 color 1.13.0

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1.396 mitchellh-mapstructure 1.4.1

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1.397 golang-snappy 0.0.4

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1.398 go-systemd 0.0.0-20190321100706-95778dfbb74e

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1.399 lumberjack 2.0.0

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1.400 gopkg.in-yaml 2.3.0

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1.413 go-errors-errors 1.1.1

1.413.1 Available under license :

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1.414 go-farm 0.0.0-20200201041132-a6ae2369ad13

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1.415 k-sone-critbitgo 1.4.0

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1.416 cheggaaa-pb 1.0.28

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1.417 go.etcd.io-bbolt 1.3.6

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1.418 grpc-websocket-proxy 0.0.0-20201229170055-e5319fda7802

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1.419 python-pip 21.3.1

1.419.1 Available under license :

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- Wichert Akkerman, 2012/02/02

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

A. HISTORY OF THE SOFTWARE

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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 |
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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 |
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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 |
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| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |

| | | | | |
|-------|-----|------|-----|-----|
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1 | 2010 | PSF | yes |
| 3.2 | 3.1 | 2010 | PSF | yes |

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1.422 prometheus-procfs 0.7.2

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

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1.423 smartystreets-goconvey 1.6.4

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1.424 json-iterator-go 1.1.12

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1.425 modern-go-reflect2 1.0.2

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1.426 prometheus-procfs 0.7.1

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1.428 pkg-sftp 1.13.4

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1.429 ishidawataru-sctp 0.0.0-

20210707070123-9a39160e9062

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1.430 pyvmomi 7.0.3

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gz/KhronosGroup-glslang-5798d23/SPIRV/bitutils.h  
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-  
gz/KhronosGroup-glslang-5798d23/SPIRV/hex_float.h  
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- * /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/preprocessor/PpAtom.cpp
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// LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
// ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
// POSSIBILITY OF SUCH DAMAGE.
//
```

```
/**
 * 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(YYSSTYPE*, 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.IValueErrorCheck($2.loc, "++", $1);
    $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);
}
| postfix_expression DEC_OP {
    parseContext.variableCheck($1);
    parseContext.IValueErrorCheck($2.loc, "--", $1);
    $$ = 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 = $2loc;
}
| function_call_header_no_parameters RIGHT_PAREN {
    $$ = $1;
    $$loc = $2loc;
}
;

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, $2loc);
}
;

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.IValueErrorCheck($1.loc, "++", $2);
    $$ = parseContext.handleUnaryMath($1.loc, "++", EOpPreIncrement, $2);
}
| DEC_OP unary_expression {
    parseContext.IValueErrorCheck($1.loc, "--", $2);
    $$ = 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 { $$ = $1; }
| unary_expression assignment_operator assignment_expression {
    parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
    parseContext.opaqueCheck($2.loc, $1->getType(), "=");
    parseContext.specializationCheck($2.loc, $1->getType(), "=");
    parseContext.IValueErrorCheck($2.loc, "assign", $1);
    parseContext.rValueErrorCheck($2.loc, "assign", $3);
    $$ = 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 {
#ifndef 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 {
#ifndef 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);
}

```

%%

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*

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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/hlsl/hlslParseHelper.cpp

* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/arrays.h

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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GLSL.ext.KHR.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GLSL.ext.AMD.h

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* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-

gz/KhronosGroup-glslang-5798d23/Test/sample.vert
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/Test/sample.frag
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*/
```

Found in path(s):

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gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/gl_types.h
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Found in path(s):

* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-

```
gz/KhronosGroup-glslang-5798d23/Test/versionsErrors.frag
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/Test/versionsClean.vert
*
/opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-
glslang-5798d23/Test/versionsClean.frag
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/Test/versionsErrors.vert
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```
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslGrammar.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslAttributes.cpp
*
/opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-
glslang-5798d23/hlsl/hlslGrammar.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslScanContext.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslTokenStream.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/attribute.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslTokens.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslScanContext.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslTokenStream.h
*
/opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-
glslang-5798d23/hlsl/hlslOpMap.cpp
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
gz/KhronosGroup-glslang-5798d23/hlsl/hlslOpMap.h
* /opt/cola/permits/1225549725_1636407830.6/0/khronosgroup-glslang-6-2-2596-0-gac37079-tar-
```


1.433 json-logging 1.3.0

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1.434 jinja2 3.0.3

1.434.1 Available under license :

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Metadata-Version: 2.1

Name: Jinja2

Version: 3.0.3

Summary: A very fast and expressive template engine.
Home-page: <https://palletsprojects.com/p/jinja/>
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Donate, <https://palletsprojects.com/donate>
Project-URL: Documentation, <https://jinja.palletsprojects.com/>
Project-URL: Changes, <https://jinja.palletsprojects.com/changes/>
Project-URL: Source Code, <https://github.com/pallets/jinja/>
Project-URL: Issue Tracker, <https://github.com/pallets/jinja/issues/>
Project-URL: Twitter, <https://twitter.com/PalletsTeam>
Project-URL: Chat, <https://discord.gg/pallets>
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier:
 Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n
License-File: LICENSE.rst

Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.

- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

Install and update using `pip`:

```
.. code-block:: text
```

```
$ pip install -U Jinja2
```

```
.. _pip: https://pip.pypa.io/en/stable/getting-started/
```

In A Nutshell

```
.. code-block:: jinja
```

```
{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
  <li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}
```

Donate

The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, please donate today.

```
.. _please donate today: https://palletsprojects.com/donate
```

Links

- Documentation: <https://jinja.palletsprojects.com/>
- Changes: <https://jinja.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Jinja2/>
- Source Code: <https://github.com/pallets/jinja/>
- Issue Tracker: <https://github.com/pallets/jinja/issues/>
- Website: <https://palletsprojects.com/p/jinja/>
- Twitter: <https://twitter.com/PalletsTeam>
- Chat: <https://discord.gg/pallets>

Found in path(s):

* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO

* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/PKG-INFO

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[metadata]

name = Jinja2

version = attr: jinja2.__version__

url = <https://palletsprojects.com/p/jinja/>

project_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://jinja.palletsprojects.com/>

Changes = <https://jinja.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/jinja/>

Issue Tracker = <https://github.com/pallets/jinja/issues/>

Twitter = <https://twitter.com/PalletsTeam>

Chat = <https://discord.gg/pallets>

license = BSD-3-Clause

license_files = LICENSE.rst

author = Armin Ronacher

author_email = armin.ronacher@active-4.com

maintainer = Pallets

maintainer_email = contact@palletsprojects.com

description = A very fast and expressive template engine.

long_description = file: README.rst

long_description_content_type = text/x-rst

classifiers =

Development Status :: 5 - Production/Stable

Environment :: Web Environment

Intended Audience :: Developers

License :: OSI Approved ::

BSD License

Operating System :: OS Independent

Programming Language :: Python

Topic :: Internet :: WWW/HTTP :: Dynamic Content

Topic :: Text Processing :: Markup :: HTML

[options]

packages = find:

package_dir = = src

include_package_data = true

python_requires = >= 3.6

[options.packages.find]

where = src

[options.entry_points]

babel.extractors =

```
jinja2 = jinja2.ext:babel_extract[i18n]
```

```
[tool:pytest]
```

```
testpaths = tests
```

```
filterwarnings =
```

```
error
```

```
ignore:The loop argument:DeprecationWarning:asyncio[.]base_events:542
```

```
[coverage:run]
```

```
branch = True
```

```
source =
```

```
jinja2
```

```
tests
```

```
[coverage:paths]
```

```
source =
```

```
src
```

```
*/site-packages
```

```
[flake8]
```

```
select = B, E, F, W, B9, ISC
```

```
ignore =
```

```
E203
```

```
E501
```

```
E722
```

```
W503
```

```
max-line-length = 80
```

```
per-file-ignores =
```

```
src/jinja2/__init__.py: F401
```

```
[mypy]
```

```
files = src/jinja2
```

```
python_version = 3.6
```

```
disallow_subclassing_any = True
```

```
disallow_untyped_calls = True
```

```
disallow_untyped_defs = True
```

```
disallow_incomplete_defs = True
```

```
no_implicit_optional = True
```

```
local_partial_types = True
```

```
no_implicit_reexport
```

```
= True
```

```
strict_equality = True
```

```
warn_redundant_casts = True
```

```
warn_unused_configs = True
```

```
warn_unused_ignores = True
```

```
warn_return_any = True
```

```
warn_unreachable = True
```

```
[mypy-jinja2.defaults]
no_implicit_reexport = False
```

```
[mypy-markupsafe]
no_implicit_reexport = False
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

```
* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg
```

1.435 libogg 1.3.4-0ubuntu1

1.435.1 Available under license :

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It was downloaded from <http://www.xiph.org>

Upstream Authors:

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id 1QsTXr-0004MO-Ek
for ron@debian.org; Sun, 14 Aug 2011 05:47:35 +0000
In-Reply-To: <20110813065417.GV2324@audi.shelbyville.oz>
References: <20110813065417.GV2324@audi.shelbyville.oz>
From: Silvia Pfeiffer <silviapfeiffer1@gmail.com>
Date: Sun, 14 Aug 2011 15:47:09 +1000
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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Any

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1.438 gofrs-flock 0.8.1

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1.439 protobuf 1.26.0-rc.1

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1.440 icu 66.1-2ubuntu2.1

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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 =
```

```
## End BSD-specific setup
```

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1.442 cyphar-filepath-securejoin 0.2.3

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1.443 charset-normalizer 2.0.9

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1.444 six 1.14.0

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1.445 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@cw.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 |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |

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1.446 python-ldap 3.4.0

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1.447 libseccomp 2.5.1-1ubuntu1~20.04.2

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1.448 google-golang-org-genproto 0.0.0-20190819201941-24fa4b261c55

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1.449 properties 1.8.1

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1.450 configparser 5.2.0

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1.451 apache-log4j 2.17.1

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1.452 log4j-api 2.17.1

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1.453 log4j-to-slf4j 2.17.1

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1.454 logback-core 1.2.10

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1.456 valyala-fastrand 1.0.0

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1.457 victoriametrics-metrics 1.17.2

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name: license-check

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
- name: Check License
  run: |
    make check-licenses
MIT License
```

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

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* React Router DOM v6.3.0

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Files: internal/snapref/*

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1.461 valyala-fastrand 1.1.0

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1.462 glibc 2.27-3ubuntu1

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1.463 dom 1.0

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java

*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java

*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASDataType.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

```
jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom3/as/NodeEditAS.java
```

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*/
/**
* Checks if this content model has had its min/maxOccurs values reduced for
* purposes of speeding up UPA. If
so, this content model should not be used
* for any purpose other than checking unique particle attribution
*
* @return a boolean that says whether this content has been compacted for UPA
*/
```

Found in path(s):

```
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
```

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 */
 /**
 * DOM Level 3 LS CR - Experimental.
 * Create a new `LSParser`. The newly constructed parser may
 *
 then be configured by means of its `DOMConfiguration`
 * object, and used to parse documents by means of its `parse`
 * method.
 * @param mode The `mode` argument is either
 * `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if
 * `mode` is `MODE_SYNCHRONOUS` then the
 * `LSParser` that is created will operate in synchronous
 * mode, if it's `MODE_ASYNCHRONOUS` then the
 * `LSParser` 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 `Document` using the
 * newly created `LSParser`. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * `LSParser` for any kind of schema types (i.e. the
 * `LSParser` will be free to use any schema
 found), use the value
 * `null`.
 *

Note: For W3C XML Schema [[XML Schema Part 1\]
 * , applications must use the value
 * `"http://www.w3.org/2001/XMLSchema"`. For XML DTD \[\[XML 1.0\\],
 * applications must use the value
 * `"http://www.w3.org/TR/REC-xml"`. 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 `LSParser` object. This
 * `LSParser` is either synchronous or asynchronous
 * depending on the value of the `mode` argument.
 *

Note: By default, the newly created `LSParser`
 * does not contain a `DOMErrorHandler`, i.e. the value of
 * the "\\[---

Open Source Used In Access and Mobility Management Function 2023.04.0.1108 2835\\]\\(http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-</p>
</div>
<div data-bbox=\\)\]\(http://www.w3.org/TR/2000/REC-xml-20001006/\)](http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/)

handler'>

- * error-handler" 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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- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
- *
- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
- * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLImgElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLOptgroupElement.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/parser/XMLInputSource.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLImgElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLTimerElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/XSParticle.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLWmlElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/StringList.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLTimerElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/WMLAnchorElement.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xml/serialize/HTMLSerializer.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLHtmlElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/stax/DefaultNamespaceContext.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xs/XSException.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLMetaElementImpl.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLQuoteElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/EncodingMap.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xinclude/XIncludeTextReader.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DOMInputImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/ObjectFactory.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xpointer/XPointerHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/util/XMLCatalogResolver.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLTitleElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/ElementDefinitionImpl.java
 *
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 jar/org/apache/xerces/impl/dtd/XML11ElementDecl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/xerces/parsers/AbstractDOMParser.java
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 *
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/CDATASectionImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/models/CMBuilder.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/events/UIEventImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/Constants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/MouseEventImpl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/Util.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/wml/WMLInputElement.java
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jar/org/apache/wml/dom/WMLTableElementImpl.java
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jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DeferredNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSIncludeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/DVFactoryException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLDocumentImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLOptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLParamElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLAnchorElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLModElementImpl.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLDocumentImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/DeferredElementNSImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/XMLEntityHandler.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/StandardParserConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/models/XSAllCM.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLDoElementImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/html/dom/NameNodeListImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/io/UCSReader.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/RevalidationHandler.java
 *
 /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/dom/NodeImpl.java
 * /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
 jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java
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*/

/**

* used to check the 3 constraints against each complex type

* (should be each model group):

* Unique Particle

Attribution, Particle Derivation (Restriction),

* Element Declarations Consistent.

*/

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSConstraints.java

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jar/org/apache/xerces/xs/datatypes/package.html

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// Unique Particle Attribution

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSDFACM.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java

*

/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

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jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
*
/opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/msg/XMLMessages.properties
```

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties

1.464 simpleclient 0.9.0

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* /opt/cola/permits/1257332897_1642801897.79/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/DoubleAdder.java

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* /opt/cola/permits/1257332897_1642801897.79/0/simpleclient-0-9-0-sources-jar/io/prometheus/client/Striped64.java

1.465 simpleclient-servlet 0.9.0

1.465.1 Available under license :

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1.466 simpleclient-dropwizard 0.9.0

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1.467 jetty-setuid-java 1.0.4

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* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java
* /opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java
*

/opt/cola/permits/1257333122_1642801905.86/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java

1.468 logging-interceptor 3.12.12

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 */
```

Found in path(s):

* /opt/cola/permits/1257332962_1642801933.56/0/logging-interceptor-3-12-12-sources-

1.469 zjsonpatch 0.3.0

1.469.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NodeType.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonDiff.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/NoopProcessor.java
*
/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/ApplyProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Constants.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/CompatibilityFlags.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchApplicationException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatchProcessor.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/InvalidJsonPatchException.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/Operation.java
* /opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
jar/com/flipkart/zjsonpatch/JsonPatch.java
```

*

/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Diff.java

1.470 java-semver 0.9.0

1.470.1 Available under license :

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* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/LexerException.java

* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/package-info.java

* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/And.java

* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Not.java

* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/ExpressionParser.java

* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/package-info.java

*

/opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/GreaterOrEqual.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/LessOrEqual.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Equal.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/UnexpectedTokenException.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/NotEqual.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/CompositeExpression.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Or.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/Stream.java
*
/opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Expression.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/VersionParser.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/UnexpectedElementException.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/Version.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/NormalVersion.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Lexer.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/UnexpectedCharacterException.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/util/package-info.java
*
/opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Less.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/Parser.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/expr/Greater.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/ParseException.java
* /opt/cola/permits/1257333337_1642801889.72/0/java-semver-0-9-0-sources-jar/com/github/zafarkhaja/semver/MetadataVersion.java

1.471 profiler 1.1.1

1.471.1 Available under license :

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*  
* Includes Sizzle.js  
* http://sizzlejs.com/  
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*  
* Date: Thu Jun 30 14:16:56 2011 -0400  
*/
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/resources/jquery-1.6.2.min.js
```

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```
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* jQuery Templates Plugin 1.0.0pre  
* http://github.com/jquery/jquery-tmpl  
* Requires jQuery 1.4.2  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-jar/ca/jimr/gae/profiler/resources/jquery.templ.min.js
```

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* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfiler.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfilerFilter.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/resources/MiniProfilerResourceLoader.java
* /opt/cola/permits/1257333100_1642801922.15/0/gae-mini-profiler-1-1-1-sources-
jar/ca/jimr/gae/profiler/MiniProfilerServlet.java

1.472 simpleclient-common 0.9.0

1.472.1 Available under license :

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1.473 stateless4j 2.5.0

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- * /opt/cola/permits/1257784248_1643014186.5/0/stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
- * /opt/cola/permits/1257784248_1643014186.5/0/stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/OutVar.java

1.474 mchange-commons-java 0.2.15

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1.475 go-radix v0.0.0-20180808171621-7fddfc383310

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1.476 logback-jackson 0.1.5

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1.479 jackson-jaxrs 2.9.9

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1.481 evanphx-json-patch 5.6.0+incompatible

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1.482 plexus-utils 3.3.0

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1.483 commons-cli 1.5.0

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jar/net/sourceforge/argparse4j/impl/type/ReflectArgumentType.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/CountArgumentAction.java
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/FeatureControl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/ArgumentParsers.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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*
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/Subparsers.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/internal/SubparserImpl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java

* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java
*
/opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/Namespace.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/Arguments.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/Subparser.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentType.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java
*
/opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
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* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/helper/TextHelper.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java
*
/opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/helper/PrefixPattern.java
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jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java
* /opt/cola/permits/1260522043_1643170161.62/0/argparse4j-0-7-0-sources-
jar/net/sourceforge/argparse4j/inf/MetavarInference.java
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```
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```

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```
/*
  json_parse.js
  2015-05-02
  Public Domain.
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//////////////////////////////////////////////////////////////////
```

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For t_cl_generator.cc

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1.487 otel-exporters-otlp-otlptrace 1.0.1

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```
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```

```
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```
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```

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lib/erl/src/Makefile.am

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
# Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
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```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
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*/
```


(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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Codegen template

in t_html_generator.h

* Bootstrap v2.0.3

*

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*

* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

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1.489 contrib-instrumentation- google.golang.org-grpc-otelgrpc 0.25.0

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1.493 simpleclient-hotspot 0.9.0

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1.494 evanphx-json-patch

4.12.0+incompatible

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jar/javax/xml/bind/util/Messages.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/helpers/Messages.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/ValidationEventLocator.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/util/JAXBResult.java  
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/opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Validator.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java  
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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
jar/javax/xml/bind/helpers/PrintConversionEventImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
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 \* `/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessType.java`  
 \* `/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java`  
 \* `/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMimeType.java`  
 \* `/opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaTypes.java`  
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/opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaType.java  
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## 1.513 logback-core 1.2.11



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## 1.515 go-logr-stdr 1.2.2

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## 1.522 xz 5.2.4-1ubuntu1.1

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Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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Origin: configure.ac from XZ Utils,  
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This package was put together by Matthias Klose <doko@debian.org>, from the following sources:

bash: <ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz>

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support/man2html.c

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# 1.527 cast 1.4.0

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## 1.530 go-toml 1.9.2

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\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>  
  
\* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>  
\* MS Visual Studio error format option.  
\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>  
\* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>  
\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).  
\* Added generation of field number constants.

Wink Saville <wink@google.com>  
\* 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)

# 1.567 google-uuid 1.2.0

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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## 1.569 go-toml 1.9.3

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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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## 1.570 sarama 1.29.1

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

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.579 istack-commons 3.0.5

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-->

Found in path(s):

\* /opt/cola/permits/1334904685\_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml

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

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](https://glassfish.java.net/public/CDDL+GPL_1_1.html), [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://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

Found in path(s):  
\* /opt/cola/permits/1334904685\_1653676440.7415743/0/istack-commons-runtime-3-0-5-jar/META-  
INF/MANIFEST.MF

# 1.580 cast 1.5.0

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# 1.582 zstd-jni 1.5.2-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1642851452470

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;description=BSD 2-Clause License

Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni  
Bundle-NativeCode: darwin/x86\_64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=x86\_64, darwin/aarch64/libzstd-jni-1.5.2-1.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni-1.5.2-1.so;osname=FreeBSD;processor=i386, linux/aarch64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=aarch64, linux/amd64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni-1.5.2-1.so;osname=Linux;processor=arm, linux/i386/libzstd-jni-1.5.2-1.so;osname=Linux;processor=i386, linux/mips64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni-1.5.2-1.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni-1.5.2-1.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni-1.5.2-1.dll;osname=Win32;processor=x86  
Bundle-SymbolicName: com.github.luben.zstd-jni  
Bundle-Vendor: com.github.luben  
Bundle-Version: 1.5.2.1  
Created-By: 11.0.14 (Debian)  
Export-Package: com.github.luben.zstd;version="1.5.2.1",com.github.luben.zstd.util;version="1.5.2.1"  
Implementation-Title: zstd-jni  
Implementation-Vendor: com.github.luben  
Implementation-Vendor-Id: com.github.luben  
Implementation-Version: 1.5.2-1  
Import-Package: org.osgi.framework;resolution:=optional  
Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,darwin.x86\_64,darwin.aarch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=11.0))"  
"  
Specification-Title: zstd-jni  
Specification-Vendor: com.github.luben  
Specification-Version: 1.5.2-1  
Tool: Bnd-4.0.0.201805111645  
  
Found in path(s):  
\* /opt/cola/permits/1337889408\_1654234488.39181/0/zstd-jni-1-5-2-1-jar/META-INF/MANIFEST.MF

# 1.583 keyutils 1.6-6ubuntu1.1

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```
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```

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# 1.584 go-openapi-jsonreference 0.20.0

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## 1.585 e2fsprogs 1.45.5-2ubuntu1.1

### 1.585.1 Available under license :

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

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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 package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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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

- 
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Gadi Oxman, August 1995

-----  
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```

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```
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```

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Theodore Ts'o  
23-June-2007

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

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That's all there is to it!

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

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

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

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# 1.586 google-cloud-go 0.34.0

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{ },
        TestIamPermissions: []gax.CallOption{ },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available 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

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// 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
    }

    callOpts :=
defaultLicenseCodesRESTClientOptions()
    c := &licenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

```

```

return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, 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, "gopic", getVersionClient(), "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, err := url.Parse(c.endpoint)
if err != nil {
return nil,
err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject()),

```

```

req.GetLicenseCode())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.LicenseCode{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err
:= c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, 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,
    err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

```

```

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// 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
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
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 available 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

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// 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
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)

```

```

if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, 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", getVersionClient(), "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
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    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, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
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()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
return err
}
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}
}

```

```

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return
op, nil
}

// 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, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
    true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }

```

```

httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, 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, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    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()

```

```

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, 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 *compute.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, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    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()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts
= append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &compute.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
    })
}

```



```

}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnmarshal(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:
            c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// 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)
    unmarshalOptions := 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, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
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()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

```

```

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
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, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST",
baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }
}

```

```

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, 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, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context,
settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, 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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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

```

```

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.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

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.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO:
        Handle error.
    }
}

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
}

```

# 1.587 stackexchange-wmi 0.0.0-20190523213315-cbe66965904d

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# 1.588 x-lint 0.0.0-20201208152925-83fdc39ff7b5

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# 1.591 gopherjs 0.0.0-20181017120253-0766667cb4d1

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## 1.592 coreos-bbolt 1.3.6

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## 1.595 python-certifi 2021.05.30

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.596 activation-api 1.2.2

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

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Gocheck - A rich testing framework for Go

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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:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javac.mail.glassfish

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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

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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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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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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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

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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

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.601 jetty-util 9.4.48.v20220622

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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:javafx.mail.glassfish

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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>

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OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

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-----

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

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

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\* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

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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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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:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javac.mail.glassfish

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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

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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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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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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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

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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

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.604 golang-jwt 3.2.1+incompatible

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## 1.605 zlib 1.2.11

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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

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

\*/

# 1.606 prometheus-common 0.37.0

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# 1.607 golang-jwt 4.4.2

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##+TITLE: List of code with permissive licenses as used by GnuPG.  
##+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.611 sqlx 1.3.5

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## 1.612 audience-annotations 0.13.0

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## 1.613 go-colorable 0.1.13

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# 1.615 go.uber.org/atom 1.10.0

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# 1.616 chardet 4.0.0

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Any executables

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

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

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## 1.617 html5lib 1.1

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## 1.618 colorama 0.4.4

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## 1.619 webencodings 0.5.1

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python-webencodings

=====

This is a Python implementation of the WHATWG Encoding standard  
<<http://encoding.spec.whatwg.org/>>`\_.

- \* Latest documentation: <http://packages.python.org/webencodings/>
- \* Source code and issue tracker:  
<https://github.com/gsnedders/python-webencodings>
- \* PyPI releases: <http://pypi.python.org/pypi/webencodings>
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- \* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like ``Content-Type: text/html; charset=latin1``, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python's.

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

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```
from setuptools import setup, find_packages
```

```
import io
```

```
from os import path
```

```
import re
```

```
VERSION = re.search("VERSION = '([^\s]+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)
```

```
LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()
```

```
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language
:: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
```

```
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: WWW/HTTP',
],
packages=find_packages(),
)
```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
```

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```
"""
```

```
webencodings.mklabels
```

```
~~~~~
```

Regenerate the webencodings.labels module.

```
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```

```
:license: BSD, see LICENSE for details.
```

```
"""
```

```
import json
```

```
try:
```

```
 from urllib import urlopen
```

```
except ImportError:
```

```
 from urllib.request import urlopen
```

```
def assert_lower(string):
```

```
 assert string == string.lower()
```

```
 return string
```

```
def generate(url):
```

```
 parts = ["\
```

```
"""
```

```
webencodings.labels
```

```
~~~~~
```

Map encoding labels to their name.

```
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```
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```

```
"""
```

```

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    ""
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ' %s:%s %s,\n' % (label, ' '* (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ".join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

```

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
```

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:license: BSD, see LICENSE for details.

Found in path(s):

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
```

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
```

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
```

```
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
```

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Metadata-Version: 1.1

Name: webencodings

Version: 0.5.1

Summary: Character encoding aliases for legacy web content

Home-page: <https://github.com/SimonSapin/python-webencodings>

Author: Geoffrey Sneddon

Author-email: [me@gsnedders.com](mailto:me@gsnedders.com)

License: BSD

Description: python-webencodings

=====

This is a Python implementation of the `WHATWG Encoding standard`  
<<http://encoding.spec.whatwg.org/>>`\_.

\* Latest documentation: <http://packages.python.org/webencodings/>

\* Source code and issue tracker:

<https://github.com/gsnedders/python-webencodings>

\* PyPI releases: <http://pypi.python.org/pypi/webencodings>

\* License: BSD

\* Python 2.6+ and 3.3+

In order to be compatible with legacy web content

when interpreting something like ``Content-Type: text/html; charset=latin1``,

tools need to use a particular set

of aliases for encoding labels

as well as some overriding rules.

For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually

aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence  
over any other encoding declaration.

The Encoding standard defines all such details so that implementations do  
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,

but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python

:: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Classifier: Programming Language :: Python :: Implementation :: CPython

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-

0.5.1/webencodings.egg-info/PKG-INFO

\* /opt/cola/permits/1401468445\_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-INFO

# 1.620 pep517 0.12.0

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# 1.621 six 1.16.0

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acknowledge the following people who submitted bug reports, pull requests, and  
otherwise worked to improve six:

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# 1.622 idna 3.3

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## 1.623 python-certifi 2021.10.08

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.624 protobuf 1.27.1

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## 1.626 customize-api 0.12.1



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# 1.635 pyyaml 6.0

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## 1.638 simpleclient 0.16.0

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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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\* /opt/cola/permits/1417007534\_1663222283.6427658/0/simpleclient-0-16-0-sources-jar/io/prometheus/client/DoubleAdder.java

# 1.639 simpleclient\_tracer\_otel 0.16.0

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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, Exposition, 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.prometheus.client.exemplars.tracer.common";version="0.16.0"

Import-Package: io.opentelemetry.api.trace;resolution:=optional,io.prometheus.client.exemplars.tracer.common;version="[0.16,1)"

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1417007497\_1663222176.7797983/0/simpleclient-tracer-otel-0-16-0-jar/META-INF/MANIFEST.MF

# 1.640 simpleclient-common 0.16.0

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# 1.641 simpleclient-httpserver 0.16.0

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# 1.642 simpleclient\_tracer\_otel\_agent 0.16.0

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# 1.643 simpleclient-hotspot 0.16.0

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Manifest-Version: 1.0

Bnd-LastModified: 1655327979490

Build-Jdk: 11.0.15

Built-By: fabian

Bundle-Description: Collectors of data from Java Hotspot.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Prometheus Java Simpleclient Hotspot

Bundle-SymbolicName: io.prometheus.simpleclient\_hotspot

Bundle-Version: 0.16.0

Created-By: Apache Maven Bundle Plugin

Export-Package: io.prometheus.client.hotspot;uses:="io.prometheus.client

";version="0.16.0"

Import-Package: com.sun.management,io.prometheus.client;version="[0.16,1

);javax.management,javax.management.openmbean

Tool: Bnd-2.1.0.20130426-122213

Found in path(s):

\* /opt/cola/permits/1417007560\_1663222261.4278126/0/simpleclient-hotspot-0-16-0-jar/META-INF/MANIFEST.MF

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# 1.644 term 0.0.0-20220808134915-39b0c02b01ae

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Written by: Philip Hazel  
Email local part: ph10  
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## 1.646 hibernate-validator 6.2.5.Final

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# 1.647 scala-logging\_2.13 3.9.4

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## 1.648 go-md2man 2.0.2

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## 1.649 google-go-cmp 0.5.9

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## 1.650 go-openapi-swag 0.22.3

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# 1.651 x-tools 0.1.12

## 1.651.1 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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```

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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 = `

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//go:build go1.18

// +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"))
    }
}

```

# 1.652 ecj 3.26.0

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*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
into account
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.

```

- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- \* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java

\*

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java

\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java  
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\* IBM Corporation - fix for 342598

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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* 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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```
Found in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
```

jar/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java  
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\* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations

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Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* Bug 328281 - visibility leaks not detected when analyzing unused field in private class

\* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries

\* Bug 354536 - compiling package-info.java still depends on the order of compilation units

\* Bug 349326 - [1.7] new warning for missing try-with-resources

\* Bug

358903 - Filter practically unimportant resource leak warnings

\* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class

- \* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
  - \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
  - \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
  - \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
  - \* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
  - \* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"
  - \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
  - \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  - \* Bug 415821 - [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous classes
  - \* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
  - \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
  - \* Bug 473178
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java

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\* Stephan Herrmann - Contributions for

\* 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 - Contribution for  
\* Bug 440474 - [null] textual encoding of external null annotations  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java

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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

\*\*\*\*\*/

Found in path(s):

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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
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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\* Stephan Herrmann - Contributions for

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 435570 - [1.8][null] @NonNullByDefault

illegally tries to affect "throws E"

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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 *   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
 *     Bug 473178
 */
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 *     bug 185682 - Increment/decrement operators mark local variables as read
 *     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
 *     bug 331649 - [compiler][null] consider null annotations for fields
 *     bug 383368 - [compiler][null] syntactic null analysis for field references
 *     bug 392384 - [1.8][compiler][null] Restore nullness
 * info from type annotations in class files
 *   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
 *   Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
 */
```

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 *     bug 407191 - [1.8] Binary access support for type annotations
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 *     Bug 440474 - [null] textual encoding of external null annotations
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\* IBM Corporation - Fix for bug 328575  
\* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/model/ModuleElementImpl.java  
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*   Stephan Herrmann - Contributions for
*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790
- [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java

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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

```

```

*****/

```

Found in path(s):

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/Compiler.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 370639 - [compiler][resource] restore the default for resource leak warnings  
\* bug 265744 - Enum switch should warn about missing default  
\* bug 374605 - Unreasonable warning for enum-based switch statements  
\* bug 381443  
- [compiler][null] Allow parameter widening from @NonNull to unannotated  
\* Bug 441208 - [1.8][null] SuppressWarnings("null") does not suppress / marked Unnecessary  
\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),  
Collection#remove(Object) et al.  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java

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 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 365519 - editorial cleanup after bug 186342 and bug 365387  
 \* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class  
 \*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java

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jar/org/eclipse/jdt/internal/compiler/lookup/ReferenceBindingSetWrapper.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 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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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java

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\* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 317046 - Exception during debugging when hover mouse over a field

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class

files

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
- \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 435962 - [RC2] StackOverFlowError when building
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \*

\*\*\*\*\*/

Found in path(s):

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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 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] Message 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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Found in path(s):

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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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\* Stephan Herrmann - Contribution for

\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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\* tyeung@bea.com - initial API and implementation

\* olivier\_thomann@ca.ibm.com - add hashCode() and equals(..) methods

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jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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*   wharley@bea.com - derived base class from BatchMessengerImpl  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java

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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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jar/org/eclipse/jdt/internal/compiler/ast/OperatorExpression.java
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jar/org/eclipse/jdt/internal/compiler/ast/RequiresStatement.java
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jar/org/eclipse/jdt/internal/compiler/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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jar/org/eclipse/jdt/internal/compiler/problem/messages.properties  
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jar/org/eclipse/jdt/internal/compiler/apt/dispatch/ProcessorInfo.java  
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jar/org/eclipse/jdt/internal/compiler/util/Sorting.java  
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jar/org/eclipse/jdt/internal/compiler/ReadManager.java

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\* Frits Jalvingh - fix for bug 533830.

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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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```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.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
*****/

```

Found

in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-

```

jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/LocalDeclaration.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
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java

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\* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.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 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java

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\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions

\* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)

\* Stephan Herrmann - Contribution for

\* bug 402028 - [1.8][compiler] null analysis for reference

expressions

- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to

Files::walk

- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- \* Bug 427438

- [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J

involved

- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
- \* Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 438945 - [1.8] NullPointerException

InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading

- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

\*\*\*\*\*/

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.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
*****/
```

```
Found
in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/RecordComponent.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java

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\* IBM Corporation - bug fixes

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBound.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.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  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java

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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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Found
in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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* Contributors:
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*   Stephan Herrmann - Contributions for
*     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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Found
in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java
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jar/org/eclipse/jdt/internal/compiler/ast/IJavadocTypeReference.java  
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* Contributors:
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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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jar/org/eclipse/jdt/internal/compiler/ast/JavadocFieldReference.java  
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
*****/
```

Found in path(s):

```
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.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 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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
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\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda  
\*\*\*\*\*/

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jar/org/eclipse/jdt/internal/compiler/apt/dispatch/HookedJavaFileObject.java

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*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*     Bug 417758 - [1.8][null] Null safety compromise during array creation.
*     Bug 427438 - [1.8][compiler] NPE at
    org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*     Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*****/

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jar/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java
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* Contributors:
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*   Stephan Herrmann - Contribution for
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*     Bug 425783 - An
    internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*****/

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\* 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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- \* Stephan Herrmann - Contributions for
  - \* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
  - \* bug 319201 - [null] no warning when unboxing SimpleNameReference 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
- checking
  - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 417295 - [1.8][null] Message 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 SimpleNameReference.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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/AllocationExpression.java

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 186342 - [compiler][null] Using annotations for null checking



- \* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
  - \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
  - \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
  - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
  - \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
  - \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
  - \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
  - \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
  - \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
  - \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
  - \* Bug 427438 - [1.8][compiler]
- NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  - \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  - \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  - \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

\*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExplicitConstructorCall.java
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- \* IBM Corporation - initial API and implementation
- \* Stephan Herrmann - Contributions for
- \* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

- \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
  - \* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
  - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 455723 - Nonnull argument not correctly inferred in loop
  - \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
  - \* Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
- \*\*\*\*\*/

Found in path(s):

\*/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FlowContext.java

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\* Stephan Herrmann - Contributions for

\* 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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\* Stefan Xenos (Google) - Initial implementation  
\*\*\*\*\*/

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\* Walter Harley - initial API and implementation  
\* IBM Corporation - fix for 342598, 382590  
\* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypesImpl.java

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*     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
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java

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*   Stephan Herrmann - Contribution for
*     Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileSystem.java

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\* Stephan Herrmann - Contributions for

\* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)

\* Bug 388630 - @NonNull diagnostics at line 0

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

\* Bug 424727 - [compiler][null] NullPointerException

in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)

\* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?

\* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

\* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for

\* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

\* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java

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*   Stephan Herrmann - Contribution for
*     Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*     Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*     Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*     Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Andy
*   Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.java
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jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/core/compiler/InvalidInputException.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SingleMemberAnnotation.java  
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\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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 varargs
  - \* 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
- \*\*\*\*\*/

Found in path(s):

\*/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java

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- \* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
- \* bug 185682 - Increment/decrement operators mark local variables as read
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* Bug 417295 - [1.8][null] Message 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.

\*\*\*\*\*/

Found in path(s):

\*/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java

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*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Bug 473178
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*     bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java  
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\* Jesper S Moller - Contributions for  
\* bug 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 serializable lambdas
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LambdaExpression.java

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\* Walter Harley - Patch for ensuring the parent folders are created

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

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\* IBM Corporation - fix for 342598  
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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 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
\*\*\*\*\*/

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\* IBM Corporation - fix for bug 342757  
\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.java  
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\* David Foerster - patch for toUpperCase as described in [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=153125](https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125)  
\*\*\*\*\*/

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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  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PackageBinding.java

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\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

\* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)

\* Bug 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 serializable 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

\*\*\*\*\*  
\*/

Found in path(s):

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jar/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java
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*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
```

jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java  
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jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/IDependent.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java  
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jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java  
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jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java  
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jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java  
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jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java  
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/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java  
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jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java  
 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java  
 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java  
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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java  
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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java  
 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java  
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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java  
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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java  
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 \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java  
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- \* bug 331649 - [compiler][null] consider null annotations for fields
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 458396 - NPE in CodeStream.invoke()
- \*\*\*\*\*/

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- \* Bug 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 serializable lambdas

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java  
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jar/org/eclipse/jdt/internal/compiler/ast/YieldStatement.java  
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\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contributions for

\* 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 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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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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\* Nick Teryaev - fix for bug ([https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=40752](https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752))  
\* Stephan Herrmann - Contributions for  
\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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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\* 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] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize

declaration style null annotations

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\* Jesper Steen Moller - Contributions for  
\* Bug 412150 [1.8] [compiler]  
Enable reflected parameter names during annotation processing  
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\* bug 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 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator

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* IBM Corporation - fix for 342470
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 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

\* 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 AnnotableTypeSystem.getRawType  
\* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file  
\*\*\*\*\*/

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\* Bug 458396 - NPE in CodeStream.invoke()  
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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

\*\*\*\*\*

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Expression.java

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* wharley@bea.com - initial API and implementation  
*  
*/
```

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`/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java`  
`/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java`

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jar/org/eclipse/jdt/internal/compiler/lookup/IQualifiedTypeResolutionListener.java

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\* wharley@bea.com - initial API and implementation

\* IBM Corporation - fix for 342598

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jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BaseProcessingEnvImpl.java

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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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ManyToMany.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 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

\*

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 416267 - NPE in QualifiedAllocationExpression.resolveType

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 424415 - [1.8][compiler] Eventual

resolution of ReferenceExpression is not seen to be happening.

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 378674 - "The method can be declared as static" is wrong

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

\* Till Brychcy - Contributions for  
\* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/QualifiedAllocationExpression.java  
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\* Benjamin Muskalla - Contribution for bug 239066  
\* Stephan Herrmann - Contributions for  
\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used  
\* bug 295551 - Add option to automatically promote all warnings to errors  
\* bug 349326 - [1.7] new warning for missing try-with-resources  
\* bug 186342 - [compiler][null] Using annotations for null checking  
\* bug  
370639 - [compiler][resource] restore the default for resource leak warnings  
\* bug 366063 - Compiler should not add synthetic @NonNull annotations  
\* bug 374605 - Unreasonable warning for enum-based switch statements  
\* bug 388281 - [compiler][null] inheritance of null annotations as an option  
\* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated  
\* bug 383368 - [compiler][null] syntactic null analysis for field references  
\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),  
Collection#remove(Object) et al.  
\* Jesper Steen Moller - Contributions for  
\* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code  
\* bug 407297 - [1.8][compiler] Control generation of parameter names by option

\*\*\*\*\*/

Found

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jar/org/eclipse/jdt/internal/compiler/impl/CompilerOptions.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 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] Message 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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\* IBM Corporation - initial API and implementation  
\* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm  
\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions  
\* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CharOperation.java

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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
\*   Bug 473178  
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\* Contributors:

\* wharley@bea.com - initial API and implementation

\* IBM Corporation - fix for 342598

\* IBM Corporation - Java 8 support

\* het@google.com - Bug 427943 - The method

org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException

\*\*\*\*\*/

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 292478 - Report potentially null across variable assignment

\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

\* Bug 421035 - [resource]

False alarm of resource leak warning when casting a closeable in its assignment

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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\* Igor Fedorenko - extracted from ElementsImpl

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AND\_AND\_Expression.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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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java

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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
- \* 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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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java

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- \* Jesper S Moller - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Stephan Herrmann - Contribution for
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3

Functional Interface Parameterization Inference"

- \* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
- \* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

\* Bug 446442 - [1.8] merge null annotations from super methods  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas  
\*\*\*\*\*/

Found

in path(s):

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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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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 328281 - visibility leaks not detected when analyzing unused field in private class



\* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java

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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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*   Stephan Herrmann - initial API and implementation
*   Till Brychcy - Contributions for
*       Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
*****/

```

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java
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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
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithAnnotation.java
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\* 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):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java

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\* Bug 407191 - [1.8] Binary access support for type annotations  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java

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\* IBM Corporation - Java 8 support  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/NoTypeImpl.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java

\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java

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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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in path(s):
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java
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*     bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Stephan Herrmann - Contribution for
*     bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 416182 - [1.8][compiler][null]
*     Contradictory null annotations not rejected
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java

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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] Message 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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- \* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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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] Message 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 varargs
*       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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jar/org/eclipse/jdt/internal/compiler/ast/ASTNode.java

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java

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*   Stephan Herrmann - Contributions for
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*     Bug 417295 - [1.8][null] Massage type annotated
*     null analysis to gel well with deep encoded type bindings.
*     Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java

```

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*
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java

```

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\* Stephan Herrmann - Contributions for

\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug

422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

\*\*\*\*\*

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/OR\_OR\_Expression.java

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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

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Statement.java

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\* Contributors:

\* tyeung@bea.com - initial API and implementation

\* olivier\_thomann@ca.ibm.com - add hashCode() and equals(..) methods

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java  
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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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jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJrt.java  
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jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java  
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- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- \* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller - Contributions for
- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 527554 - [1.8.3] 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 serializable 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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  - \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileManager.java
  - \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.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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\* 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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 \* Stephan Herrmann - contributions for  
 \* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do { } while() loop  
 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 365519 - editorial cleanup after bug 186342 and bug 365387  
 \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK  
 \* bug 365859 - [compiler][null]  
 distinguish warnings based on flow analysis vs. null annotations  
 \* bug 385626 - @NonNull fails across loop boundaries  
 \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
 \* bug 376263 - Bogus "Potential null pointer access" warning  
 \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred  
 checking  
 \* bug 406384 - Internal error with I20130413  
 \* Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of  
 LoopingFlowContext and FinallyFlowContext  
 \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops  
 \* Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference  
 \* Bug 455723 - Nonnull argument not correctly inferred in loop  
 \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch  
 \* Bug 421035 - [resource]  
 False alarm of resource leak warning when casting a closeable in its assignment  
 \* Jesper S Moller - contributions for  
 \* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops  
 \*\*\*\*\*/

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 \* Stephan Herrmann - Contribution for  
 \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations  
 \* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability

analysis

- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Till Brychcy - Contribution for
- \* Bug 473713

- [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

\*\*\*\*\*/

/\* Cache the derived type, tagging it as a derivative of both the key type and the naked type.

E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

Taking parameterized types as an example, a call to getParameterizedType 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):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.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] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs

- \* 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

\*\*\*\*\*/

Found

in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TypeReference.java

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- \* Jesper S Moller - Contributions for
- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
- \* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
- Contributions for
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
- \* Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException: "Invalid lambda deserialization"

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Found in path(s):

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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 ternary 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 serializable 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

\*\*\*\*\*/

Found in path(s):

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java

\*

/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/core/JDTCompilerAdapter.java

\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java

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\* Contributors:

\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contributions for

\* bug 325755 - [compiler] wrong initialization state after conditional expression

\* bug 320170 - [compiler] [null] Whitebox issues in null analysis

\* bug 292478 - Report potentially null across variable assignment

\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection

\* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

\*\*\*\*\*/

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 *     bug 383368 - [compiler][null] syntactic null analysis for field references
 *     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 *     Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
 *     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *     Bug 417295 - [1.8][null]
 *     Massage type annotated null analysis to gel well with deep encoded type bindings.
 *     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
 *     Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
 *     Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
 *     Andy Clement - Contributions for
 *       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 * work)
 */
```

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```
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java  
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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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 \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

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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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in path(s):

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 328281 - visibility leaks not detected when analyzing unused field in private class

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365836 - [compiler][null] Incomplete propagation of null defaults.

\* bug 365519 - editorial cleanup after bug 186342

and bug 365387

\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* bug 366063 - Compiler should not add synthetic @NonNull annotations

\* bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)

\* bug 386356 - Type mismatch error with annotations and generics

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.

\* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

\* Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type

\* Bug 417295 - [1.8][null] Message 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 serializable lambdas
- \* Sebastian Zarnkow - Contributions

for

- \* bug 544921 - [performance] Poor performance with large source files

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.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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```
*/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/SuperReference.java
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* Tom Tromeu - 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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\* 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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java

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\* Kenneth Olson - initial API and implementation

\* Dennis Hendriks - initial API and implementation

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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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java

\*

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java

\*

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\* Frits Jalvingh - fix for bug 533830.

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java

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\* 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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java

\*

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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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)  
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jar/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java  
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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java

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\* Bug 186342 - [compiler][null] Using annotations for null checking  
\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java  
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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 407191 - [1.8] Binary access support for type annotations  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfo.java  
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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 subtype
- \* 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 serializable 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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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CodeStream.java

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- \* IBM Corporation - Fix for bug 328575
- \* IBM Corporation - Java 8 support

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- \* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementsImpl.java

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jar/org/eclipse/jdt/internal/compiler/apt/model/TypeMirrorImpl.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java  
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\* 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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java  
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java  
\*  
/opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java  
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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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\* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8  
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\* Patrick Wienands <[pwienands@abit.de](mailto:pwienands@abit.de)> - Contribution for bug 393749  
\* Stephan Herrmann - Contribution for  
\* bug 331649 - [compiler][null] consider null annotations for fields  
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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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*     bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*****/

```

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*     Bug 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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jar/org/eclipse/jdt/internal/compiler/ast/ArrayTypeReference.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 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</code>

\* Bug 466713 - Null Annotations: NullPointerException using <code>int @Nullable []</code> as Type Param

\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedQualifiedTypeReference.java

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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
 \* Bug 407191 - [1.8] Binary access support for type annotations

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationInfo.java

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\* Contributors:  
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\* Jesper Steen Moeller - Contributions for:  
\* Bug 407297: [1.8][compiler] Control generation of parameter names by option  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/tool/Options.java  
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\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped  
\* Stephan Herrmann - Contribution for  
\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
\* Bug 417295 - [1.8][null] Message 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  
\*\*\*\*\*/

Found in path(s):  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/Wildcard.java  
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*     bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
    generics (RuntimeException instead of IOException)
*****/

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/ThrowStatement.java
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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
*
/opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java

```

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java  
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 *   Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
 *   Stephan Herrmann - Contributions for
 *     bug 319201 - [null] no warning when unboxing SimpleNameReference 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] Message 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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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java

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jar/org/eclipse/jdt/core/compiler/CompilationProgress.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-  
jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 292478 - Report potentially null across variable assignment,

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:  
info cannot be null

\* Bug 458396 - NPE in CodeStream.invoke()

\* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

\* Jesper S Moller - <jesper@selskabet.org> - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\* bug 378674 - "The method can be declared as static" is wrong

\* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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\* bug 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 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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in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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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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jar/org/eclipse/jdt/internal/compiler/env/ITypeAnnotationWalker.java
```

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```
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*
*****/
```

\* Contributors:

- \* IBM Corporation - initial API and implementation
- \* Benjamin Muskalla - Contribution for bug 239066
- \* Stephan Herrmann - Contributions for
  - \* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
  - \* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
  - \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
  - \* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
  - \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
  - \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
  - \* bug 374605 - Unreasonable warning for enum-based switch statements
  - \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
  - \* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* bug 376053 - [compiler][resource] Strange potential resource leak problems
  - \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
  - \* bug 393719 - [compiler] inconsistent warnings on iteration

variables

- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared

abstract

- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
- \* bug 376590 - Private fields with @Inject are ignored by unused field validation
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402028 - [1.8][compiler] null analysis for reference expressions
- \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug

392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 415850 - [1.8] Ensure RunJDTCORETests can cope with null annotations enabled
- \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first

field

- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to

Files::walk

- \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert  
from List<Object> to Collection<Object[]>
- \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type

Bindings

- \* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations

- \* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations
- \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 438467 - [compiler][null] Better error position for "The method \_ cannot implement the corresponding method \_ due to incompatible nullness constraints"
- \* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
  - \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
  - \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
  - \* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
  - \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  - \* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
  - \* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
  - \* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
  - \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
  - \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
  - \* bug 386692 - Missing "unused" warning on "autowired" fields

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java

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\* Contributors:

- \* IBM Corporation - initial API and implementation
  - \* Stephan Herrmann - Contribution for
  - \* bug 384380 - False positive on a "Potential null pointer access" after a continue
  - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InvocationSite.java

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\* Contributors:

- \* Stephan Herrmann - initial API and implementation

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Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SplitPackageBinding.java

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java

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\* Contributors:

- \* IBM Corporation - initial API and implementation

- \* Stephan Herrmann - Contributions for

- \* bug 319201 - [null] no warning when unboxing SimpleNameReference 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

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/DoStatement.java

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\* 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 388281 - [compiler][null] inheritance of null annotations as an option

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\*\*\*\*\*/

Found



in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TagBits.java  
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\* Contributors:  
\* IBM Corporation - initial API and implementation  
\* 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  
\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java  
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\* Contributors:  
\* IBM Corporation - initial API and implementation  
\* IBM Corporation - added the following constants  
\* NonStaticAccessToStaticField  
\* NonStaticAccessToStaticMethod  
\* Task  
\* ExpressionShouldBeAVariable  
\* AssignmentHasNoEffect  
\* IBM Corporation - added the following constants  
\* TooManySyntheticArgumentSlots  
\* TooManyArrayDimensions

- \* TooManyBytesForStringConstant
- \* TooManyMethods
- \* TooManyFields
- \* NonBlankFinalLocalAssignment
- \* ObjectCannotHaveSuperTypes
- \* MissingSemiColon
- \* InvalidParenthesizedExpression
- \* EnclosingInstanceInConstructorCall
- \* BytecodeExceeds64KLimitForConstructor
- \* IncompatibleReturnTypeForNonInheritedInterfaceMethod
- \* UnusedPrivateMethod
- \* UnusedPrivateConstructor
- \* UnusedPrivateType
- \* UnusedPrivateField
- \* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
- \* InvalidExplicitConstructorCall
- \* IBM Corporation - added the following constants
- \* PossibleAccidentalBooleanAssignment
- \* SuperfluousSemicolon
- \* IndirectAccessToStaticField
- \* IndirectAccessToStaticMethod
- \* IndirectAccessToStaticType
- \* BooleanMethodThrowingException
- \* UnnecessaryCast
- \* UnnecessaryArgumentCast
- \* UnnecessaryInstanceOf
- \*
- FinallyMustCompleteNormally
- \* UnusedMethodDeclaredThrownException
- \* UnusedConstructorDeclaredThrownException
- \* InvalidCatchBlockSequence
- \* UnqualifiedFieldAccess
- \* IBM Corporation - added the following constants
- \* Javadoc
- \* JavadocUnexpectedTag
- \* JavadocMissingParamTag
- \* JavadocMissingParamName
- \* JavadocDuplicateParamName
- \* JavadocInvalidParamName
- \* JavadocMissingReturnTag
- \* JavadocDuplicateReturnTag
- \* JavadocMissingThrowsTag
- \* JavadocMissingThrowsClassName
- \* JavadocInvalidThrowsClass
- \* JavadocDuplicateThrowsClassName
- \* JavadocInvalidThrowsClassName
- \* JavadocMissingSeeReference
- \* JavadocInvalidSeeReference

- \* JavadocInvalidSeeHref
- \* JavadocInvalidSeeArgs
- \* JavadocMissing
- \* JavadocInvalidTag
- \* JavadocMessagePrefix
- \* EmptyControlFlowStatement
- \* IBM Corporation - added the following constants
- \* IllegalUsageOfQualifiedTypeReference
- \* InvalidDigit
- \* IBM Corporation - added the following constants
- \* ParameterAssignment
- \* FallthroughCase
- \* IBM Corporation - added the following constants
- \* UnusedLabel
- \* UnnecessaryNLSTag
- \* LocalVariableMayBeNull
- \* EnumConstantsCannotBeSurroundedByParenthesis
- \* JavadocMissingIdentifier
- \* JavadocNonStaticTypeFromStaticInvocation
- \* RawTypeReference
- \* NoAdditionalBoundAfterTypeVariable
- \* UnsafeGenericArrayForVarargs
- \* IllegalAccessFromTypeVariable
- \*
- AnnotationValueMustBeArrayInitializer
- \* InvalidEncoding
- \* CannotReadSource
- \* EnumStaticFieldInInInitializerContext
- \* ExternalProblemNotFixable
- \* ExternalProblemFixable
- \* IBM Corporation - added the following constants
- \* AnnotationValueMustBeAnEnumConstant
- \* OverridingMethodWithoutSuperInvocation
- \* MethodMustOverrideOrImplement
- \* TypeHidingTypeParameterFromType
- \* TypeHidingTypeParameterFromMethod
- \* TypeHidingType
- \* IBM Corporation - added the following constants
- \* NullLocalVariableReference
- \* PotentialNullLocalVariableReference
- \* RedundantNullCheckOnNullLocalVariable
- \* NullLocalVariableComparisonYieldsFalse
- \* RedundantLocalVariableNullAssignment
- \* NullLocalVariableInstanceofYieldsFalse
- \* RedundantNullCheckOnNonNullLocalVariable
- \* NonNullLocalVariableComparisonYieldsFalse
- \* IBM Corporation - added the following constants
- \* InvalidUsageOfTypeParametersForAnnotationDeclaration

- \* InvalidUsageOfTypeParametersForEnumDeclaration
- \* IBM Corporation - added the following constants
- \* RedundantSuperinterface
- \* Benjamin Muskalla - added the following constants
- \* MissingSynchronizedModifierInInheritedMethod
- \* Stephan Herrmann - added the following constants
- \* UnusedObjectAllocation
- \* PotentiallyUnclosedCloseable
- \* PotentiallyUnclosedCloseableAtExit
- \* UnclosedCloseable
- \* UnclosedCloseableAtExit
- \* ExplicitlyClosedAutoCloseable
- \* RequiredNonNullButProvidedNull
- \* RequiredNonNullButProvidedPotentialNull
- \* RequiredNonNullButProvidedUnknown
- \* NullAnnotationNameMustBeQualified
- \* IllegalReturnNullityRedefinition
- \* IllegalRedefinitionToNonNullParameter
- \* IllegalDefinitionToNonNullParameter
- \* ParameterLackingNonNullAnnotation
- \* ParameterLackingNullableAnnotation
- \* PotentialNullMessageSendReference
- \* RedundantNullCheckOnNonNullMessageSend
- \* CannotImplementIncompatibleNullness
- \* RedundantNullAnnotation
- \* RedundantNullDefaultAnnotation
- \* RedundantNullDefaultAnnotationPackage
- \* RedundantNullDefaultAnnotationType
- \* RedundantNullDefaultAnnotationMethod
- \* ContradictoryNullAnnotations
- \* IllegalAnnotationForBaseType
- \* RedundantNullCheckOnSpecdNonNullLocalVariable
- \* SpecdNonNullLocalVariableComparisonYieldsFalse
- \* RequiredNonNullButProvidedSpecdNullable
- \* MissingDefaultCase
- \* MissingEnumConstantCaseDespiteDefault
- \* UninitializedLocalVariableHintMissingDefault
- \* UninitializedBlankFinalFieldHintMissingDefault
- \* ShouldReturnValueHintMissingDefault
- \* IllegalModifierForInterfaceDefaultMethod
- \* InheritedDefaultMethodConflictsWithOtherInherited
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion
- \* ArrayReferencePotentialNullReference
- \* DereferencingNullableExpression
- \* NullityMismatchingTypeAnnotation
- \* NullityMismatchingTypeAnnotationSuperHint

- \* NullityUncheckedTypeAnnotationDetail
- \* NullityUncheckedTypeAnnotationDetailSuperHint
- \* NullableFieldReference
- \* UninitializedNonNullField
- \* UninitializedNonNullFieldHintMissingDefault
- \* NonNullMessageSendComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullSpecdField
- \* NonNullSpecdFieldComparisonYieldsFalse
- \* NonNullExpressionComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullExpression
- \* ReferenceExpressionParameterNullityMismatch
- \* ReferenceExpressionParameterNullityUnchecked
- \* ReferenceExpressionReturnNullRedef
- \* ReferenceExpressionReturnNullRedefUnchecked
- \* DuplicateInheritedDefaultMethods
- \* SuperAccessCannotBypassDirectSuper
- \* SuperCallCannotBypassOverride
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion
- \* PotentialNullUnboxing
- \* NullUnboxing
- \* NullExpressionReference
- \* PotentialNullExpressionReference
- \* RedundantNullCheckAgainstNonNullType
- \* NullAnnotationUnsupportedLocation
- \* NullAnnotationUnsupportedLocationAtType
- \* NullityMismatchTypeArgument
- \* ContradictoryNullAnnotationsOnBound
- \* UnsafeNullnessCast
- \* ContradictoryNullAnnotationsInferred
- \* NonNullDefaultDetailIsNotEvaluated
- \* NullNotCompatibleToFreeTypeVariable
- \* NullityMismatchAgainstFreeTypeVariable
- \* ImplicitObjectBoundNonNullDefault
- \* IllegalParameterNullityRedefinition
- \* ContradictoryNullAnnotationsInferredFunctionType
- \* IllegalReturnNullityRedefinitionFreeTypeVariable
- \* UnlikelyCollectionMethodArgumentType
- \* UnlikelyEqualsArgumentType
- \* Jesper S Moller - added the following constants
- \* TargetTypeNotAFunctionalInterface
- \* OuterLocalMustBeEffectivelyFinal
- \* IllegalModifiersForPackage
- \* DuplicateAnnotationNotMarkedRepeatable
- \* DisallowedTargetForContainerAnnotation
- \* RepeatedAnnotationWithContainerAnnotation
- \* ContainingAnnotationMustHaveValue

- \* ContainingAnnotationHasNonDefaultMembers
- \* ContainingAnnotationHasWrongValueType
- \* ContainingAnnotationHasShorterRetention
- \* RepeatabeAnnotationHasTargets
- \* RepeatabeAnnotationTargetMismatch
- \* RepeatabeAnnotationIsDocumented
- \* RepeatabeAnnotationIsInherited
- \* RepeatabeAnnotationWithRepeatingContainerAnnotation
- \* VarLocalMultipleDeclarators
- \* VarLocalCannotBeArray
- \* VarLocalReferencesItself
- \* VarLocalWithoutInitiazlier
- \* VarLocalInitializedToNull
- \* VarLocalCannotBeArrayInitalizers
- \* VarLocalCannotBeLambda
- \* VarLocalCannotBeMethodReference
- \* VarIsReserved
- \* VarIsReservedInFuture
- \* VarIsNotAllowedHere

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IProblem.java

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\* Contributors:

\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contribution for

\* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method

\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\*

bug 407191 - [1.8] Binary access support for type annotations

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java

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\* Contributors:

\* Stephan Herrmann - initial API and implementation  
\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
\* Bug 473178  
\* IBM Corporation - Bug fixes

\*\*\*\*\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java

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\* Contributors:

\* IBM Corporation - initial API and implementation  
\* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ExecutableElementImpl.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 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?

\* Jesper S Moller - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java

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\* Stephan Herrmann - Contributions for

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute

\*\*\*\*\*  
\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contribution for
*     bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*     bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*     bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*     Bug
415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*     Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*     Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*     Bug 426792 - [1.8][inference][impl] generify new type inference engine
*     Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*     Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*     Bug 441693 -
[1.8][null] Bogus warning for type argument annotated with @NonNull
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

```

Found in path(s):

```

* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java

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*   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 SimpleNameReference 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
*****/

```

Found in path(s):

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* /opt/cola/permits/1430636762_1664535907.3671625/0/ecj-3-26-0-sources-3-
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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  
work)

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/

Found in path(s):

\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE  
\* bug 349326 - [1.7] new warning for missing try-with-resources  
\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 383368 - [compiler][null] syntactic null analysis for field references  
\* bug 403147 - [compiler][null] FUP of bug 400761:  
consolidate interaction between unboxing, NPE, and deferred checking  
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\* Bug 428811 - [1.8][compiler] Type witness unnecessarily required  
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\* bug 383368 - [compiler][null] syntactic null analysis for field references  
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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 serializable lambdas  
\*\*\*\*\*/

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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.java

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*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 383368 - [compiler][null] syntactic null analysis for field references
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\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java  
\* /opt/cola/permits/1430636762\_1664535907.3671625/0/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java  
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*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*     Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*****/
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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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Written by: Philip Hazel  
Email local part: ph10  
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## 1.656 javassist 3.29.2-GA

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Found in path(s):

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/ByteStream.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/tools/Callback.java

\*

/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtConstructor.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/InnerClassesAttribute.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/Lex.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtNewClass.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/compiler/ast/NewExpr.java

\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-

jar/javassist/bytecode/CodeIterator.java  
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jar/javassist/scopedpool/ScopedClassPool.java  
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jar/javassist/ByteArrayClassPath.java  
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jar/javassist/compiler/ast/Pair.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-

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jar/javassist/ClassClassPath.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-
jar/javassist/bytecode/AccessFlag.java
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jar/javassist/convert/Transformer.java
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jar/javassist/runtime/Inner.java
* /opt/cola/permits/1434218610_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/ClassMap.java
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\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/CtNewMethod.java  
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/opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-

jar/javassist/bytecode/annotation/IntegerMemberValue.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-  
jar/javassist/bytecode/annotation/StringMemberValue.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-  
jar/javassist/bytecode/annotation/EnumMemberValue.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-  
jar/javassist/bytecode/annotation/BooleanMemberValue.java  
\* /opt/cola/permits/1434218610\_1664996210.5127783/0/javassist-3-29-2-ga-sources-  
jar/javassist/bytecode/annotation/AnnotationMemberValue.java

# 1.657 Iz4 1.2.12

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it
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```

```
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Ty Coon, President of Vice
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# 1.658 unzip 6.0-25ubuntu1.1

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-----

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is

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```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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```

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```
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*
* Copyright 1997 Christopher Evans (cevens@poppybank.com)
*
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* MacBinary III spec.
* -----
* This source is copyrighted by Christopher Evans (cevens@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
```

\* homepage of Leonard Rosenthol (leonardr@netcom.com)

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip),

Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

---

# 1.659 otel-exporters-otlp-otlptrace-otlptracegrpc 1.0.1

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```
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```

-----  
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```
/*
  json_parse.js
  2015-05-02
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```

```
*/
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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```



-----  
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in t\_html\_generator.h

\* Bootstrap v2.0.3

\*

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\* Designed and built with all the love in the world @twitter by @mdo and @fat.

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For t\_cl\_generator.cc

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>

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# 1.660 zlib 1.2.11.dfsg-2ubuntu1.5

## 1.660.1 Available under license :

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/\* gun.c -- simple gunzip to give an example of the use of inflateBack()

\* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler

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Version 1.7 12 August 2012 Mark Adler \*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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/\* gzclose.c -- zlib gzclose() function

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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 Guller 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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\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

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/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

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\*/

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\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

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/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

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\*/

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/zconf.h.cmakein
```

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```
/*
* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/gzlog.c
```

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```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c
```

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```
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1.2.11.dfsg/examples/zlib_how.html
```

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```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
```

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```
/* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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/\* 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

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/\* gzread.c -- zlib functions for reading gzip files

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Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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 patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method

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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

/\* 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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3. This notice may not be removed or altered from any source distribution.

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](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

\*/

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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

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 latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](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](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](mailto: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](mailto: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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ
```

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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

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/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

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

/\* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.11, January 15th, 2017

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Mark Adler

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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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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 (<http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of zip.h

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

## 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](mailto: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/minizip.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](mailto:zlib@gzip.org), or to Gilles Vollant [info@winimage.com](mailto: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](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [markn@ieee.org](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs'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](mailto: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](mailto: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](mailto: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.
- gzopen 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
```

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Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
```

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```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/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.

/\* 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):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c

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/\* gzlog.h

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version 2.2, 14 Aug 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /opt/cola/permits/1445162814\_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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/\* fitblk.c: example of fitting compressed output to a specified size

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Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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.

```
/* 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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/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):

```
* /opt/cola/permits/1445162814_1666092919.423293/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
```

# 1.661 zlib 1.2.13

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```
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```

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```
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```

## 1.664 go-ntlmssp 0.0.0-20200615164410-66371956d46c

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# 1.666 docker-credential-helpers 0.7.0

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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/TypeAdapterFactory.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java  
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/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/TypeAdapter.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapters.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java  
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/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/ConstructorConstructor.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/UnsafeAllocator.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java

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jar/com/google/gson/internal/Streams.java  
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jar/com/google/gson/JsonSyntaxException.java  
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jar/com/google/gson/annotations/Since.java  
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jar/com/google/gson/FieldNamingPolicy.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/Primitives.java  
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jar/com/google/gson/FieldNamingStrategy.java  
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jar/com/google/gson/internal/ObjectConstructor.java  
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jar/com/google/gson/annotations/Until.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/JsonSerializationContext.java  
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jar/com/google/gson/ExclusionStrategy.java  
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jar/com/google/gson/internal/\$Gson\$Preconditions.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonElement.java  
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/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonPrimitive.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/JsonSerializer.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/InstanceCreator.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/internal/Excluder.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/JsonDeserializationContext.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/JsonIOException.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/JsonArray.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/JsonDeserializer.java  
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/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/GsonBuilder.java  
\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-  
jar/com/google/gson/JsonParseException.java  
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jar/com/google/gson/annotations/SerializedName.java  
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jar/com/google/gson/reflect/TypeToken.java  
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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/LongSerializationPolicy.java

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\* /opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/stream/JsonToken.java

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/opt/cola/permits/1455481167\_1667022567.4713087/0/gson-2-10-sources-jar/com/google/gson/stream/MalformedJsonException.java

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jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java  
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jar/com/google/gson/annotations/JsonAdapter.java

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/opt/cola/permits/1470661767\_1673053540.47054/0/victoriametrics-1-17-3-tar/VictoriaMetrics-1.17.3/vm-logo-zip/VM\_logo/Horizontal\_orientation/VM\_logo2\_HRZNTL\_white.eps: binary file matches  
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## 1.675 scala 2.13.10

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Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

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```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the

Tuple3,

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```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

3 errors

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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>;description=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,scala.runtime,scala.runtime.java8",scala.compat.java8.FunctionConverters;version="1.0.2";uses:="scala,scala.compat.java8,scala.reflect,scala.runtime",scala.compat.java8.collectionImpl;version="1.0.2";uses:="scala.collection,scala.jdk,scala.reflect",scala.compat.java8.converterImpl;version="1.0.2";uses:="scala,scala.collection,scala.collection.convert,scala.jdk,scala.reflect,scala.runtime",scala.compat.java8.functionConverterImpls;version="1.0.2";uses:="scala,scala.reflect,scala.runtime",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.mutable;version="[2.13,3)",scala.compat.java8.collectionImpl;version="[1.0,2)",scala.compat.java8.converterImpl;version="[1.0,2)",scala.compat.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="[2.13,3)",scala.runtime.java8;version="[2.13,3)",scala.util;version="[2.13,3)"

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):

\* /opt/cola/permits/1501589067\_1670483251.2627988/0/scala-java8-compat-2-13-1-0-2-2-jar/META-INF/MANIFEST.MF

# 1.680 utils 0.0.0-20221107191617-1a15be271d1d

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## 1.681 zap 1.24.0

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components:

```
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
  json_parse.js
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  Public Domain.
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
```

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Codegen template  
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# 1.683 scala-reflect 2.13.10

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jar/org/rocksdb/RocksMutableObject.java  
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jar/org/rocksdb/AbstractTableFilter.java  
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jar/org/rocksdb/MutableOptionValue.java  
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jar/org/rocksdb/HashLinkedListMemTableConfig.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-  
jar/org/rocksdb/AbstractMutableOptions.java  
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
```

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jar/org/rocksdb/TableProperties.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/util/Environment.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableOptionKey.java
*
/opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/SizeApproximationFlag.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionStopStyle.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/HashSkipListMemTableConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/MutableDBOptionsInterface.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/TableFilter.java
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jar/org/rocksdb/TransactionLogIterator.java
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jar/org/rocksdb/NativeLibraryLoader.java
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jar/org/rocksdb/BlockBasedTableConfig.java
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jar/org/rocksdb/HistogramType.java
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jar/org/rocksdb/RocksDBException.java
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jar/org/rocksdb/TableFormatConfig.java
* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CompactionOptions.java
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jar/org/rocksdb/ExternalFileIngestionInfo.java
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jar/org/rocksdb/CompactionJobInfo.java
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jar/org/rocksdb/OptimisticTransactionOptions.java
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\* /opt/cola/permits/1515188939\_1671567706.271915/0/rocksdbjni-7-1-2-sources-jar/org/rocksdb/PlainTableConfig.java  
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jar/org/rocksdb/MergeOperator.java
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* /opt/cola/permits/1515188939_1671567706.271915/0/rocksdbjni-7-1-2-sources-
jar/org/rocksdb/CassandraCompactionFilter.java
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## 1.693 supervisor 4.2.5

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## 1.705 prometheus-client 0.2.0

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# 1.706 xxhash 2.2.0

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## 1.708 objenesis 3.2

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## 1.709 python-setuptools 45.2.0-1ubuntu0.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
| 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                 |
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| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  |              |           |            |                     |
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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 the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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## 1.710 pythonurllib 1.25.8-2ubuntu0.2

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# Contributions to the urllib3 project

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  - \* 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
  
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  - \* Non-multipart encoding for POST requests
  
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  - \* Code review, PEP8 compliance, benchmark fix
  
- \* kennethreitz <me@kennethreitz.com>
  - \* Bugfixes, suggestions, Requests integration
  
- \* georgemarshall <<https://github.com/georgemarshall>>
  - \* Bugfixes, Improvements and Test coverage
  
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  - \* Python 3 support
  
- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
  - \* Design review, bugfixes, test coverage.

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- \* IPv6 url support and test coverage
  
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- \* Support for explicitly closing pooled connections
  
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- \* SSL fingerprint and alternative hostname verification
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- \* 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
  
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- \* Fixed a race condition
  
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- \* 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>



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- \* Support for separate connect and request timeouts
  
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- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
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- \* 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  
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- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes

- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
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- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
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- \* Implemented generator for getting chunks from chunked responses.
  
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- \* 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.
  
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- \* 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``.
  
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- \* 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@gmail.com>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
  - \* Logging efficiency
  - improvements, spelling fixes, Travis config.
  
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  - \* 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>
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- \* 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>



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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/widget/AutopairWidgets.java  
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\*  
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jar/org/jline/console/impl/JlineCommandRegistry.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/CmdDesc.java
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/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/AbstractCommandRegistry.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ColorPalette.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Signals.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/CompletionMatcher.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/completer/SystemCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/EndOfFileException.java
```

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*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/SyntaxError.java
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***/
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* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionFactory.java
```

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```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionListener.java
```

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#
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```
class = org.jline.terminal.impl.exec.ExecTerminalProvider
```

```
Found in path(s):
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/META-  
INF/services/org/jline/terminal/provider/exec
```

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```
class = org.jline.terminal.impl.jansi.JansiTerminalProvider
```

```
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```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/META-
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java

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jar/org/jline/builtins/telnet/PortListener.java

\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/telnet/Connection.java

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jar/org/jline/builtins/telnet/TelnetIO.java

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jar/org/jline/builtins/telnet/ConnectionEvent.java

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jar/org/jline/builtins/telnet/ConnectionManager.java

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/reader/impl/completer/package-info.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java  
 \*  
 /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Reference.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/completer/NullCompleter.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/completer/EnumCompleter.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/ExecPty.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ShutdownHooks.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/OSUtils.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Expander.java  
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 /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/MouseEvent.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/CursorSupport.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ClosedException.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/ExecHelper.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/DiffHelper.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/UserInterruptException.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Binding.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/InputStreamReader.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/DefaultExpander.java  
 \*  
 /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/UndoTree.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Macro.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/Pty.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/WCWidth.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Widget.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/package-info.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/Levenshtein.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AttributedString.java  
 \* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Cursor.java  
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/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Attributes.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_sms0, 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, NI  
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  
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clear\_margins, mgc, MC  
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clr\_eol, el, ce  
clr\_eos, ed, cd  
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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  
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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

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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  
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ZU  
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exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
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flash\_screen, flash, vb  
form\_feed, ff, ff  
from\_status\_line, fsl, fs  
goto\_window, wingo, WG  
hangup, hup, HU  
init\_1string, is1, i1  
init\_2string, is2, is  
init\_3string, is3, i3  
init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, il1, al  
insert\_padding, ip, ip  
key\_a1, ka1, K1  
key\_a3, ka3, K3



key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2  
key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4  
key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD  
key\_dl, kdl1, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
key\_end, kend, @7  
key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos,  
ked, kS  
key\_exit, kext, @9  
key\_f0, kf0, k0  
key\_f1, kf1, k1  
key\_f10, kf10, k;  
key\_f11, kf11, F1  
key\_f12, kf12, F2  
key\_f13, kf13, F3  
key\_f14, kf14, F4  
key\_f15, kf15, F5  
key\_f16, kf16, F6  
key\_f17, kf17, F7  
key\_f18, kf18, F8  
key\_f19, kf19, F9  
key\_f2, kf2, k2  
key\_f20, kf20, FA  
key\_f21, kf21, FB  
key\_f22, kf22, FC  
key\_f23, kf23, FD  
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key\_f25, kf25, FF  
key\_f26, kf26, FG  
key\_f27, kf27, FH  
key\_f28, kf28, FI  
key\_f29, kf29, FJ  
key\_f3, kf3, k3

key\_f30, kf30, FK  
key\_f31, kf31, FL  
key\_f32, kf32, FM  
key\_f33, kf33, FN  
key\_f34, kf34, FO  
key\_f35, kf35, FP  
key\_f36, kf36, FQ  
key\_f37, kf37, FR  
key\_f38, kf38, FS  
key\_f39, kf39, FT  
key\_f4, kf4, k4  
key\_f40, kf40, FU  
key\_f41, kf41, FV  
key\_f42, kf42, FW  
key\_f43, kf43, FX  
key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58,  
Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6  
key\_f60, kf60, Fo  
key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
key\_f63, kf63, Fr  
key\_f7, kf7, k7  
key\_f8, kf8, k8  
key\_f9, kf9, k9  
key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kill, kA  
key\_left, kcub1, kl  
key\_ll, kll, kH

key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
key\_previous, kprv, %8  
key\_print, kpri, %9  
key\_redo, krdo, %0  
key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
key\_sbeg, kBEG, &9  
key\_scancel, kCAN, &0  
key\_scommand, kCMD, \*1  
key\_scopy, kCPY, \*2  
key\_screate, kCRT, \*3  
key\_sdc, kDC, \*4  
key\_sdl, kDL, \*5  
key\_select, kslt, \*6  
key\_send, kEND, \*7  
key\_seol, kEOL, \*8  
key\_sexit, kEXT, \*9  
key\_sf, kind, kF  
key\_sfind, kFND, \*0  
key\_shelp, kHLP, #1  
key\_shome, kHOM, #2  
key\_sic, kIC, #3  
key\_sleft, kLFT, #4  
key\_smessage,  
kMSG, %a  
key\_smove, kMOV, %b  
key\_snext, kNXT, %c  
key\_soptions, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_sresume, 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, mypa, Zc  
micro\_up, mceu1, 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, dochr, 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, dispch, 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, ehhl, Xh  
enter\_left\_hl\_mode, elhl, Xl  
enter\_low\_hl\_mode, elohl, Xo  
enter\_right\_hl\_mode, erhl, Xr  
enter\_top\_hl\_mode, ethl, Xt  
enter\_vertical\_hl\_mode, evhl, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

Found in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/Utils/capabilities.txt

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Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-  
jar/org/jline/builtins/ScreenTerminal.java
```

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```

```
#
```

```
black
```

```
maroon
```

```
green
```

```
olive
```

```
navy
```

```
purple
```

```
teal
```

```
silver
```

```
grey
```

```
red
```

```
lime
```

```
yellow
```

```
blue
```

```
fuchsia
```

```
aqua
```

```
white
```

```
grey0
```

```
navyblue
```

```
darkblue
```

```
blue3
```

```
blue3a
```

```
blue1
```

```
darkgreen
```

```
deepskyblue4
```

```
deepskyblue4a
```

```
deepskyblue4b
```

```
dodgerblue3
```

```
dodgerblue2
```

```
green4
```

```
springgreen4
```

```
turquoise4
```

```
deepskyblue3
```

```
deepskyblue3a
```

```
dodgerblue1
```

```
green3
```



springgreen3  
darkcyan  
lightseagreen  
deepskyblue2  
deepskyblue1  
green3a  
springgreen3a  
springgreen2  
cyan3  
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  
deppink4a  
darkmagenta  
darkmagentaa  
darkviolet  
purplea  
orange4a  
lightpink4  
plum4  
mediumpurple3  
mediumpurple3a  
slateblue1  
yellow4  
wheat4  
grey53  
lightslategrey  
mediumpurple  
lightslateblue  
yellow4a  
darkolivegreen3  
darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a  
darkolivegreen3a  
palegreen3a  
darkseagreen3  
darkslategray3  
skyblue1  
chartreuse1  
lightgreen  
lightgreena  
palegreen1  
aquamarine1a  
darkslategray1  
red3  
deppink4b  
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  
deepink3  
deepink3a  
magenta3a  
magenta3b  
magenta2  
darkorange3a  
indianreda  
hotpink3a  
hotpink2  
orchid  
mediumorchid1  
orange3  
lightsalmon3a  
lightpink3  
pink3  
plum3  
violet  
gold3a

lightgoldenrod3  
tan  
mistyrose3  
thistle3  
plum2  
yellow3a  
khaki3  
lightgoldenrod2  
lightyellow3  
grey84  
lightsteelblue1  
yellow2  
darkolivegreen1  
darkolivegreen1a  
darkseagreen1a  
honeydew2  
lightcyan1  
red1  
deeppink2  
deeppink1  
deeppink1a  
magenta2a  
magenta1  
orangered1  
indianred1  
indianred1a  
hotpink  
hotpinka  
mediumorchid1a  
darkorange  
salmon1  
lightcoral  
palevioletred1  
orchid2  
orchid1  
orange1  
sandybrown  
lightsalmon1  
lightpink1  
pink1  
plum1  
gold1  
lightgoldenrod2a  
lightgoldenrod2b  
navajowhite1  
mistyrose1  
thistle1  
yellow1

lightgoldenrod1  
khaki1  
wheat1  
cornsilk1  
grey100  
grey3  
grey7  
grey11  
grey15  
grey19  
grey23  
grey27  
grey30  
grey35  
grey39  
grey42  
grey46  
grey50  
grey54  
grey58  
grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found

in path(s):

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utis/colors.txt

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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractTerminal.java

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Parser.java

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/ConsoleEngineImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/SystemRegistry.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Nano.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/TTop.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/DefaultHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/terminal/TerminalBuilder.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/AttributedStyle.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Styles.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/PrintAboveWriter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/LineReader.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Completers.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/ConsoleEngine.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/widget/TailTipWidgets.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/builtins/ConsoleOptionGetter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Highlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/ArgDesc.java
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```

```
#
class = org.jline.terminal.impl.jna.JnaTerminalProvider
```

Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/jna
```

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```

Found in path(s):

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpReader.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/NopStyleSource.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Buffer.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleColor.java
```

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```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/telnet/Telnet.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleBundle.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/WriterOutputStream.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/ShellCommand.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/BufferImpl.java
```

```
*
```

```
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/PumpReader.java
```

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
```

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/MemoryStyleSource.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyledWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/InterpolationHelper.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/Ssh.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java  
\*

/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleResolver.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java  
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/Diag.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/spi/TerminalProvider.java  
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jar/org/jline/terminal/impl/jna/win/Kernel32.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/History.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/MaskingCallback.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStream.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/AttributedStringBuilder.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/ParsedLine.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/keymap/BindingReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Terminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/StyleResolver.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleFactory.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/Styler.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/CompletingParsedLine.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/Size.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlocking.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleExpression.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/impl/KillRing.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/NfaMatcher.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingReader.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/NonBlockingReaderImpl.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java  
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\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/style/StyleSource.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/reader/Completer.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Colors.java  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/utils/Timeout.java

```
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/InputRC.java
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* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/DefaultPrinter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/SystemRegistryImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Less.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Commands.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/builtins/SyntaxHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/console/Printer.java
*
/opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/reader/impl/LineReaderImpl.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/SystemHighlighter.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-
jar/org/jline/console/impl/Builtins.java
* /opt/cola/permits/1541830178_1674497612.0662973/0/jline-3-22-0-sources-jar/org/jline/builtins/Source.java
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terminal/pom.xml
```

\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml  
\*  
/opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml  
\* /opt/cola/permits/1541830178\_1674497612.0662973/0/jline-3-22-0-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml  
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## 1.715 python-certifi 2019.11.28-1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.716 logr 1.2.3

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/\*

Source: <https://github.com/algolia/docsearch/>

License: MIT

\*/

Found in path(s):

\* /opt/cola/permits/1547460093\_1675059036.2293298/0/dbosak01-logr-v1-2-3-0-ge637e6c-tar-gz/dbosak01-logr-e637e6c/docs/docsearch.css

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Package: logr

Title: Creates Log Files

Version: 1.2.3

Authors@R:

```
person(given = "David",
       family = "Bosak",
       role = c("aut", "cre"),
       email = "dbosak01@gmail.com")
```

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 (>= 4.0.0)

Suggests: knitr,

  rmarkdown,

  testthat,

  tidylog,

  dplyr,

  utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

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\* /opt/cola/permits/1547460093\_1675059036.2293298/0/dbosak01-logr-v1-2-3-0-ge637e6c-tar-gz/dbosak01-logr-e637e6c/DESCRIPTION

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/\*!

\* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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Found in path(s):

\* /opt/cola/permits/1547460093\_1675059036.2293298/0/dbosak01-logr-v1-2-3-0-ge637e6c-tar-gz/dbosak01-logr-e637e6c/docs/bootstrap-toc.js

\* /opt/cola/permits/1547460093\_1675059036.2293298/0/dbosak01-logr-v1-2-3-0-ge637e6c-tar-gz/dbosak01-logr-e637e6c/docs/bootstrap-toc.css

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# 1.718 go-units 0.5.0

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# 1.719 xstrings 1.4.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers.

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# 1.727 term 0.0.0-20221205130635-1aeaba878587

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## 1.728 jackson-datatype-jsr310 2.14.2

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# 1.732 go-systemd 0.0.0-20191104093116-d3cd4ed1dbcf

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## 1.733 easyjson 0.7.7

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## 1.734 go-test-deep 1.0.6

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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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DES core in libhcrypto

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lib/hcrypto/test\_dh.c

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# 1.737 stackexchange-wmi 1.2.1

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## 1.739 argparse 0.9.0

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# 1.743 x-crypto 0.6.0

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## 1.746 gnutls 3.6.13-2ubuntu1.8

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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## By Mike Hamburg (Stanford University), 2009

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## 1.747 tar 1.30+dfsg-7ubuntu0.20.04.3

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## 1.756 philhofer-fwd 1.1.1

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jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
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* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-  
jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
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/opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/YAMLEException.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-

jar/org/yaml/snakeyaml/util/ArrayStack.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-  
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jar/org/yaml/snakeyaml/introspector/PropertyUtils.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/Event.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java  
\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java  
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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java

\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java

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/**
 * A Base64 encoder/decoder.
 *
```

\* <p>  
\* This class is used to encode and decode data in Base64 format as described in RFC 1521.  
\*  
\* <p>  
\* Project home page: <a href="http://www.source-code.biz/base64coder/java/">www.  
\* source-code.biz/base64coder/java</a><br>  
\* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland<br>  
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\*/

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\* /opt/cola/permits/1584157893\_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

# 1.764 osrg-gobgp 0.0.0-20200806055634-c6f0eba8f4d8

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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/EcKeyUtil.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/ByteUtil.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/BouncyCastleProviderHelp.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jws/JsonWebSignature.java  
\*  
/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/MalformedClaimException.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/EllipticCurves.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/EcJwkGenerator.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/ReservedClaimNames.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/HashUtil.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwa/Algorithm.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodes.java  
\*  
/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/zip/CompressionAlgorithm.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/JtiValidator.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/keys/HmacKey.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/ErrorCodeValidatorAdapter.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwx/CompactSerializer.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-



```
jar/org/jose4j/lang/ExceptionHelp.java
*
/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/keys/KeyPersuasion.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/JsonHelp.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/ContentEncryptionKeyDescriptor.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwt/consumer/NumericDateValidator.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwk/VerificationJwkSelector.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jws/BaseSignatureAlgorithm.java
*
/opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwk/RsaJwkGenerator.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jwe/ContentEncryptionAlgorithm.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/keys/resolvers/JwksDecryptionKeyResolver.java
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
jar/org/jose4j/jws/HmacUsingShaAlgorithm.java
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```

Found in path(s):

```
* /opt/cola/permits/1587692654_1678323499.4437757/0/jose4j-0-9-3-sources-
```

jar/org/jose4j/jwe/kdf/ConcatenationKeyDerivationFunctionWithSha256.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunction.java  
\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunctionFactory.java  
\*  
/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwe/kdf/KdfUtil.java  
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\* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java  
\*  
/opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-  
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java  
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- \* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/lang/InvalidKeyException.java
- \* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/SelectorSupport.java
- \* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/DecryptionJwkSelector.java
- \*
- /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/SimpleJwkFilter.java

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Found in path(s):

- \* /opt/cola/permits/1587692654\_1678323499.4437757/0/jose4j-0-9-3-sources-jar/org/jose4j/jwk/HttpsJwks.java

# 1.771 apache-http-server 2.4.41-4ubuntu3.14

## 1.771.1 Available under license :

```
<?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>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
      This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
```

```

-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css"
/>
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></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>
<div class="toplant">
<p><span>Available
Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;&nbsp;</a></p>
</div>

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direction or management of such

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</div>

</div>

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</div><div class="top"><a href="#page-header"></a></div><div

class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

class="warning"><strong>Notice:</strong><br

/>This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the  
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<script type="text/javascript"><!--<!--<![CDATA[</script></div><div id="footer">

var comments\_shortcode = '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 id="comments\_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show\_comments.lua?site=' + comments\_shortcode + '&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);

</script></div><div id="footer">

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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a

href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a

href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--<!--<![CDATA[</script></div><div id="comments\_thread">

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}

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For the server\util\_md5.c component:

```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820

```

```

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*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

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# 1.774 libmnl 1.0.4-2

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```
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Author: Per Bothner

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/\* A front-end using readline to "cook" input lines for Kawa.

\*

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# 1.778 docker 23.0.1+incompatible

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## 1.782 wheel 0.40.0

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```

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```

```
* /opt/cola/permits/1594592384_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel_agent/pom.xml
```

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* /opt/cola/permits/1594592384_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient/pom.xml
```

```
* /opt/cola/permits/1594592384_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_tracer_otel/pom.xml
```

```
*
```

```
/opt/cola/permits/1594592384_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_httpservlet/pom.xml
```

```
* /opt/cola/permits/1594592384_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus.jmx/jmx_prometheus_javaagent_common/pom.xml
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* /opt/cola/permits/1594592384_1678980969.0263424/0/jmx-prometheus-javaagent-0-18-0-sources-jar/META-INF/maven/io.prometheus/simpleclient_hotspot/pom.xml
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# 1.786 jmx\_prometheus\_javaagent\_common 0.18.0

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# 1.787 base-files 11ubuntu5.7

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the  
program `Gnomovision' (a program to direct compilers to make passes
```

at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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section 10

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# 1.788 jetty-client 9.4.51.v20230217

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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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Oracle OpenJDK

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\* java.sun.security.ssl

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

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org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.789 jetty-util 9.4.51.v20230217

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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

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## 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

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## 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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## 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

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Apache

The following artifacts are ASL2 licensed.

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

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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

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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

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Assorted

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# 1.790 kerberos 1.17-6ubuntu4.3

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cmd/krb5/kadmin/server/ipropd\_svc.c  
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  
lib/libgss/g\_context\_time.c  
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  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
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lib/libgss/g\_unseal.c  
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 "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c



lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
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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/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.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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-----  
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```
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#
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```

-----  
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```
/*
  json_parse.js
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```

```
*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
```

////////////////////////////////////

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in t\_html\_generator.h

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For t\_cl\_generator.cc

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# 1.793 open-telemetry-opentelemetry-collector-contrib 1.14.0

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```

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```
/*  
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*/  
(By Douglas Crockford <douglas@crockford.com>)
```

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*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio  
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124  
//  
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//
////////////////////////////////////
```

```
-----
Codegen template
in t_html_generator.h
```

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* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

```
-----
For t_cl_generator.cc
```

```
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```

## 1.794 jackson-module-scala 2.13.5

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Found in path(s):

\* /opt/cola/permits/1606613656\_1679417956.422988/0/error-prone-annotations-2-18-0-1-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml



# 1.796 utils 0.0.0-20230220204549-a5ecb0141aa5

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\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java  
\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java  
\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java  
\*  
/opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/JnaTerminalProvider.java  
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\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java  
\* /opt/cola/permits/1617269230\_1681870932.9341993/0/jline-terminal-jna-3-22-0-sources-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/completer/package-info.java

\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/impl/history/package-info.java

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\* /opt/cola/permits/1617269091\_1681873197.576139/0/jline-reader-3-22-0-sources-jar/org/jline/reader/UserInterruptException.java

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*/
```

Found in path(s):

```
* /opt/cola/permits/1617269091_1681873197.576139/0/jline-reader-3-22-0-sources-  
jar/org/jline/reader/impl/LineReaderImpl.java
```

# 1.805 jline-style 3.22.0

## 1.805.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/MemoryStyleSource.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyleColor.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyleBundle.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyledWriter.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyleBundleInvocationHandler.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyleResolver.java  
*  
/opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/InterpolationHelper.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/NopStyleSource.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyleSource.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-jar/org/jline/style/Styler.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyleExpression.java  
* /opt/cola/permits/1617269244_1681870938.5790405/0/jline-style-3-22-0-sources-  
jar/org/jline/style/StyleFactory.java
```

## 1.806 jline-terminal 3.22.0

### 1.806.1 Available under license :

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```

Found in path(s):

```
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/spi/TerminalProvider.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/impl/Diag.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
```

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/Status.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/InfoCmp.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractPty.java

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#

black

maroon

green

olive

navy

purple

teal

silver

grey

red

lime

yellow

blue

fuchsia

aqua

white

grey0

navyblue

darkblue

blue3

blue3a

blue1

darkgreen

deepskyblue4



deepskyblue4a  
deepskyblue4b  
dodgerblue3  
dodgerblue2  
green4  
springgreen4  
turquoise4  
deepskyblue3  
deepskyblue3a  
dodgerblue1  
green3  
springgreen3  
darkcyan  
lightseagreen  
deepskyblue2  
deepskyblue1  
green3a  
springgreen3a  
springgreen2  
cyan3  
darkturquoise  
turquoise2  
green1  
springgreen2a  
springgreen1  
mediumspringgreen  
cyan2  
cyan1  
darkred  
deppink4  
purple4  
purple4a  
purple3  
blueviolet  
orange4  
grey37  
mediumpurple4  
slateblue3  
slateblue3a  
royalblue1  
chartreuse4  
darkseagreen4  
paleturquoise4  
steelblue  
steelblue3  
cornflowerblue  
chartreuse3  
darkseagreen4a

cadetblue  
cadetbluea  
skyblue3  
steelblue1  
chartreuse3a  
palegreen3  
seagreen3  
aquamarine3  
mediumturquoise  
steelblue1a  
chartreuse2  
seagreen2  
seagreen1  
seagreen1a  
aquamarine1  
darkslategray2  
darkreda  
deeppink4a  
darkmagenta  
darkmagentaa  
darkviolet  
purplea  
orange4a  
lightpink4  
plum4  
mediumpurple3  
mediumpurple3a  
slateblue1  
yellow4  
wheat4  
grey53  
lightslategrey  
mediumpurple  
lightslateblue  
yellow4a  
darkolivegreen3  
darkseagreen  
lightskyblue3  
lightskyblue3a  
skyblue2  
chartreuse2a  
darkolivegreen3a  
palegreen3a  
darkseagreen3  
darkslategray3  
skyblue1  
chartreuse1  
lightgreen

lightgreena  
palegreen1  
aquamarine1a  
darkslategray1  
red3  
deeppink4b  
mediumvioletred  
magenta3  
darkvioleta  
purpleb  
darkorange3  
indianred  
hotpink3  
mediumorchid3  
mediumorchid  
mediumpurple2  
darkgoldenrod  
lightsalmon3  
rosybrown  
grey63  
mediumpurple2a  
mediumpurple1  
gold3  
darkkhaki  
navajowhite3  
grey69  
lightsteelblue3  
lightsteelblue  
yellow3  
darkolivegreen3b  
darkseagreen3a  
darkseagreen2  
lightcyan3  
lightskyblue1  
greenyellow  
darkolivegreen2  
palegreen1a  
darkseagreen2a  
darkseagreen1  
paleturquoise1  
red3a  
deeppink3  
deeppink3a  
magenta3a  
magenta3b  
magenta2  
darkorange3a  
indianreda

hotpink3a  
hotpink2  
orchid  
mediumorchid1  
orange3  
lightsalmon3a  
lightpink3  
pink3  
plum3  
violet  
gold3a  
lightgoldenrod3  
tan  
mistyrose3  
thistle3  
plum2  
yellow3a  
khaki3  
lightgoldenrod2  
lightyellow3  
grey84  
lightsteelblue1  
yellow2  
darkolivegreen1  
darkolivegreen1a  
darkseagreen1a  
honeydew2  
lightcyan1  
red1  
deeppink2  
deeppink1  
deeppink1a  
magenta2a  
magenta1  
orangered1  
indianred1  
indianred1a  
hotpink  
hotpinka  
mediumorchid1a  
darkorange  
salmon1  
lightcoral  
palevioletred1  
orchid2  
orchid1  
orange1  
sandybrown

lightsalmon1  
lightpink1  
pink1  
plum1  
gold1  
lightgoldenrod2a  
lightgoldenrod2b  
navajowhite1  
mistyrose1  
thistle1  
yellow1  
lightgoldenrod1  
khaki1  
wheat1  
cornsilk1  
grey100  
grey3  
grey7  
grey11  
grey15  
grey19  
grey23  
grey27  
grey30  
grey35  
grey39  
grey42  
grey46  
grey50  
grey54  
grey58  
grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found

in path(s):

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utills/colors.txt

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/PumpReader.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/NonBlockingPumpReader.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/NonBlockingPumpInputStream.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/WriterOutputStream.java

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#  
class = org.jline.terminal.impl.exec.ExecTerminalProvider
```

Found in path(s):

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/exec

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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\_sms0, 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, NI  
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, bufisz, 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, e1l, 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, cudl, do



cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
define\_char, defc, ZE  
delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam,  
SA  
enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti  
enter\_delete\_mode, smdc, dm  
enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
enter\_near\_letter\_quality, snlq, ZK  
enter\_normal\_quality, snrmq, ZL  
enter\_protected\_mode, prot, mp  
enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN  
enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
erase\_chars, ech, ec  
exit\_alt\_charset\_mode, rmacs, ae  
exit\_am\_mode, rmam, RA  
exit\_attribute\_mode, sgr0, me  
exit\_ca\_mode, rmcup, te

exit\_delete\_mode, rmdc, ed  
exit\_doublewide\_mode, rwidm, ZQ  
exit\_insert\_mode, rmir, ei  
exit\_italics\_mode, ritm, ZR  
exit\_leftward\_mode, rlm, ZS  
exit\_micro\_mode, rmicm, ZT  
exit\_shadow\_mode, rshm,  
ZU  
exit\_standout\_mode, rmso, se  
exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
exit\_xon\_mode, rmxon, RX  
fixed\_pause, pause, PA  
flash\_hook, hook, fh  
flash\_screen, flash, vb  
form\_feed, ff, ff  
from\_status\_line, fsl, fs  
goto\_window, wingo, WG  
hangup, hup, HU  
init\_1string, is1, i1  
init\_2string, is2, is  
init\_3string, is3, i3  
init\_file, if, if  
init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, il1, al  
insert\_padding, ip, ip  
key\_a1, ka1, K1  
key\_a3, ka3, K3  
key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2  
key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4  
key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD

key\_dl, kd11, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
key\_end, kend, @7  
key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos,  
ked, kS  
key\_exit, kext, @9  
key\_f0, kf0, k0  
key\_f1, kf1, k1  
key\_f10, kf10, k;  
key\_f11, kf11, F1  
key\_f12, kf12, F2  
key\_f13, kf13, F3  
key\_f14, kf14, F4  
key\_f15, kf15, F5  
key\_f16, kf16, F6  
key\_f17, kf17, F7  
key\_f18, kf18, F8  
key\_f19, kf19, F9  
key\_f2, kf2, k2  
key\_f20, kf20, FA  
key\_f21, kf21, FB  
key\_f22, kf22, FC  
key\_f23, kf23, FD  
key\_f24, kf24, FE  
key\_f25, kf25, FF  
key\_f26, kf26, FG  
key\_f27, kf27, FH  
key\_f28, kf28, FI  
key\_f29, kf29, FJ  
key\_f3, kf3, k3  
key\_f30, kf30, FK  
key\_f31, kf31, FL  
key\_f32, kf32, FM  
key\_f33, kf33, FN  
key\_f34, kf34, FO  
key\_f35, kf35, FP  
key\_f36, kf36, FQ  
key\_f37, kf37, FR  
key\_f38, kf38, FS  
key\_f39, kf39, FT  
key\_f4, kf4, k4  
key\_f40, kf40, FU  
key\_f41, kf41, FV  
key\_f42, kf42, FW  
key\_f43, kf43, FX

key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58,  
Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6  
key\_f60, kf60, Fo  
key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
key\_f63, kf63, Fr  
key\_f7, kf7, k7  
key\_f8, kf8, k8  
key\_f9, kf9, k9  
key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kill, kA  
key\_left, kcub1, kl  
key\_ll, kll, kH  
key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
key\_previous, kprv, %8  
key\_print, kpri, %9  
key\_redo, krdo, %0  
key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4

key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
key\_sbeg, kBEG, &9  
key\_scancel, kCAN, &0  
key\_scommand, kCMD, \*1  
key\_scopy, kCPY, \*2  
key\_screate, kCRT, \*3  
key\_sdc, kDC, \*4  
key\_sdl, kDL, \*5  
key\_select, kslt, \*6  
key\_send, kEND, \*7  
key\_seol, kEOL, \*8  
key\_sexit, kEXT, \*9  
key\_sf, kind, kF  
key\_sfind, kFND, \*0  
key\_shelp, kHLP, #1  
key\_shome, kHOM, #2  
key\_sic, kIC, #3  
key\_sleft, kLFT, #4  
key\_smessage,  
kMSG, %a  
key\_smove, kMOV, %b  
key\_snext, kNXT, %c  
key\_soptions, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_srsume, kRES, %j  
key\_ssav, 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, colorm, 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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jar/org/jline/utils/capabilities.txt

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlocking.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/utils/StyleResolver.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java

\*

/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/ExternalTerminal.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/NonBlockingReaderImpl.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/NonBlockingInputStream.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/Timeout.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/AttributedStringBuilder.java

\*  
/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Size.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/NonBlockingReader.java  
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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Display.java  
\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/ColorPalette.java

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Cursor.java

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ClosedException.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/package-info.java

\*

/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ShutdownHooks.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/AttributedString.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/CursorSupport.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/OSUtils.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/package-info.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/ExecHelper.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/MouseSupport.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/Attributes.java

\*

/opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/InputStreamReader.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/MouseEvent.java

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\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/WCWidth.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java

\* /opt/cola/permits/1617269369\_1679983090.4024625/0/jline-terminal-3-22-0-sources-jar/org/jline/Utils/DiffHelper.java

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jar/org/jline/terminal/impl/AbstractTerminal.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/terminal/TerminalBuilder.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/utils/AttributedCharSequence.java  
* /opt/cola/permits/1617269369_1679983090.4024625/0/jline-terminal-3-22-0-sources-  
jar/org/jline/utils/AttributedStyle.java
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## 1.807 jline-remote-telnet 3.22.0

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jar/org/jline/builtins/telnet/ConnectionFactory.java  
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\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionListener.java  
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/opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionData.java  
\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/TelnetIO.java  
\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/Connection.java  
\* /opt/cola/permits/1617269336\_1681870942.7113671/0/jline-remote-telnet-3-22-0-sources-  
jar/org/jline/builtins/telnet/ConnectionEvent.java  
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jar/org/jline/builtins/Nano.java

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jar/org/jline/builtins/Completers.java

\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-  
jar/org/jline/builtins/TTop.java

\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-

jar/org/jline/builtins/Styles.java  
\* /opt/cola/permits/1617269052\_1681870941.6195126/0/jline-builtins-3-22-0-sources-  
jar/org/jline/builtins/ConsoleOptionGetter.java

# 1.809 jline-terminal-jansi 3.22.0

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\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-  
jar/org/jline/terminal/impl/jansi/win/WindowsAnsiWriter.java

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jar/org/jline/terminal/impl/jansi/win/JansiWinSysTerminal.java  
\* /opt/cola/permits/1617269406\_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-  
jar/org/jline/terminal/impl/jansi/JansiNativePty.java  
\* /opt/cola/permits/1617269406\_1681865105.007936/0/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
```

Found in path(s):

```
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/META-INF/services/org/jline/terminal/provider/jansi
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* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java  
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java  
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java  
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java  
* /opt/cola/permits/1617269406_1681865105.007936/0/jline-terminal-jansi-3-22-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
```

# 1.810 customize-kyaml 0.14.1

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# 1.811 kustomize-api 0.13.2

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Eclipse

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- \* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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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

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Oracle OpenJDK

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- \* 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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## OW2

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org.ow2.asm:asm-commons

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## Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## 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

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Assorted

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\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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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

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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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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

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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

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## 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

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## Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.814 jetty-util-ajax 9.4.51.v20230217

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The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

Oracle

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

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

\* java.sun.security.ssl

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

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

-----

## OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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## 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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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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# 1.815 jetty 9.4.51.v20230217

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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

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

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org.eclipse.jetty.toolchain:jetty-schemas

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- \* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/html/HTMLLayoutBase.java
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/FixedDelay.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/recovery/ResilientOutputStreamBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/SyslogConstants.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/DefaultSocketConnector.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/LayoutBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/OutputStreamAppender.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/LogbackException.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/stax/StaxEvent.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/ErrorStatus.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/BlueCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/parser/Node.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/filter/EvaluatorFilter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/ConsoleAppender.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/LocationUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/ElementPath.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/ActionConst.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/CompressionMode.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/RedCompositeConverter.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/ElseAction.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/BoldYellowCompositeConverter.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/OnPrintStreamStatusListenerBase.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/action/ActionUtil.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/PropertyDefinerBase.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/BoldRedCompositeConverter.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/read/CyclicBufferAppender.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/boolex/Matcher.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/event/BodyEvent.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/ContentTypeUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/server/ServerListener.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/SpacePadder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/PropertySetterException.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/encoder/EchoEncoder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/util/PropertySetter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/Condition.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/status/NopStatusListener.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/AppenderBase.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/OptionHelper.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/PostCompileProcessor.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/ContextUtil.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/filter/Filter.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/net/server/Client.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/rolling/RollingPolicy.java  
\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java  
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/opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/util/IncompatibleClassException.java  
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\* /opt/cola/permits/1627232265\_1680652209.6499386/0/logback-core-1-2-12-sources-jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java  
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jar/ch/qos/logback/core/joran/action/IADDataForBasicProperty.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java
* /opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/pattern/DynamicConverter.java
*
/opt/cola/permits/1627232265_1680652209.6499386/0/logback-core-1-2-12-sources-
jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
```

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- \* /opt/cola/permits/1634239336\_1681837914.7124803/0/kubernetes-model-apiextensions-6-5-1-sources-jar/io/fabric8/kubernetes/api/model/apiextensions/v1/JSONSchemaPropsOrArraySerDe.java
- \*
- \*/opt/cola/permits/1634239336\_1681837914.7124803/0/kubernetes-model-apiextensions-6-5-1-sources-jar/io/fabric8/kubernetes/api/model/apiextensions/v1beta1/JSONSchemaPropsOrBoolSerDe.java
- \* /opt/cola/permits/1634239336\_1681837914.7124803/0/kubernetes-model-apiextensions-6-5-1-sources-jar/io/fabric8/kubernetes/api/model/apiextensions/v1beta1/JSONSchemaPropsOrArraySerDe.java
- \* /opt/cola/permits/1634239336\_1681837914.7124803/0/kubernetes-model-apiextensions-6-5-1-sources-jar/io/fabric8/kubernetes/api/model/apiextensions/v1/JSONSchemaPropsOrBoolSerDe.java
- \* /opt/cola/permits/1634239336\_1681837914.7124803/0/kubernetes-model-apiextensions-6-5-1-sources-jar/io/fabric8/kubernetes/api/model/apiextensions/v1/JSONSchemaPropsOrStringArraySerDe.java

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jar/org/apache/zookeeper/txn/CreateSessionTxn.java
*
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* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/ErrorResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetChildren2Response.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
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* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetDataResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/WatcherEvent.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/Txn.java
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CreateTxnV0.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/ConnectRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetChildrenRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/data/StatPersisted.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetACLRequest.java  
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\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetACLResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java  
\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CreateTxn.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/AuthPacket.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/GetACLResponse.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java  
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\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/zookeeper/proto/CreateResponse.java  
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/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
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* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
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* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
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* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/ConnectResponse.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
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/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
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* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
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jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/zookeeper/server/persistence/FileHeader.java
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-->

Found in path(s):

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml  
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-->

Found in path(s):

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/package.html  
\*  
/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/package.html  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/package.html  
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Found in path(s):

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JBuffer.java

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JMap.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/OutputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JByte.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JCompType.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JInt.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JLong.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JString.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/Record.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/ToStringOutputArchive.java

\*

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JRecord.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/RecordWriter.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JDouble.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/JVector.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/RecordReader.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/BinaryOutputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/BinaryInputArchive.java

\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/CSharpGenerator.java

```
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JType.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/Utils.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/CGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JBoolean.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JField.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JFloat.java
*
/opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/Index.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/JFile.java
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/InputArchive.java
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```
* /opt/cola/permits/1634239229_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-
jar/org/apache/jute/compiler/generated/TokenMgrError.java
*
```

/opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/ParseException.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/rcc.jj  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/SimpleCharStream.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/Token.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/RccConstants.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/RccTokenManager.java  
\* /opt/cola/permits/1634239229\_1681207427.7329538/0/zookeeper-jute-3-6-4-sources-jar/org/apache/jute/compiler/generated/Rcc.java

# 1.828 kubernetes-model-node 6.5.1

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\* /opt/cola/permits/1634239322\_1681207432.5711164/0/kubernetes-model-node-6-5-1-sources-jar/manifest.vm

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Found in path(s):

\* /opt/cola/permits/1634239322\_1681207432.5711164/0/kubernetes-model-node-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-node/pom.xml

## 1.829 kubernetes-model-resource 6.5.1

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# 1.830 kubernetes-httpclient-okhttp 6.5.1

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Found in path(s):

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientFactory.java

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpClientBuilderImpl.java

\*

/opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/io/fabric8/kubernetes/client/okhttp/OkHttpWebSocketImpl.java

\* /opt/cola/permits/1634239294\_1681828841.403642/0/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):

\* /opt/cola/permits/1634239294\_1681828841.403642/0/kubernetes-httpclient-okhttp-6-5-1-sources-jar/META-INF/services/io.fabric8.kubernetes.client.http.HttpClient\$Factory

# 1.831 kubernetes-model-flowcontrol 6.5.1

## 1.831.1 Available under license :

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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/kubernetes-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.kubern

etes.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):

\* /opt/cola/permits/1634239271\_1681207449.919786/0/kubernetes-model-flowcontrol-6-5-1-jar/META-  
INF/MANIFEST.MF

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## 1.832 zookeeper 3.6.4

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Found in path(s):

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/Request.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java  
\*  
/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/SyncCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/GetAclCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/LsCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/VersionCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/KeeperException.java

\*  
/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/auth/WrappedAuthenticationProvider.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/UnimplementedRequestProcessor.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ReferenceCountedACLCache.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/quorum/LeaderElectionMXBean.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/metrics/Counter.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/quorum/Observer.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/auth/ServerAuthenticationProvider.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/ClientCnxn.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/command/WatchCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ServerCnxnFactory.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ServerMetrics.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/common/IOUtils.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/RemoveWatchesCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/common/AtomicFileWritingIdiom.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
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jar/org/apache/zookeeper/common/ZKHostnameVerifier.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
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jar/org/apache/zookeeper/server/command/DigestCommand.java  
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jar/org/apache/zookeeper/server/SyncRequestProcessor.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-

jar/org/apache/zookeeper/server/DataTreeBean.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumServerCallbackHandler.java  
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jar/org/apache/zookeeper/server/quorum/Leader.java  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/ZooKeeperServerMain.java  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/AdminServerFactory.java  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/ObserverMaster.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/IPAuthenticationProvider.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/quorum/RemotePeerMXBean.java

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jar/org/apache/zookeeper/server/quorum/Vote.java  
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jar/org/apache/zookeeper/server/command/CnxnStatResetCommand.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/KeyStoreLoader.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/admin/Command.java

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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/JLineZNodeCompleter.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/ProviderRegistry.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/auth/AuthenticationProvider.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/common/FileChangeWatcher.java

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jar/org/apache/zookeeper/common/FileKeyStoreLoaderBuilderProvider.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/util/SerializeUtils.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/metrics/SummarySet.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/common/PKCS12FileLoader.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/common/StandardTypeFileKeyStoreLoader.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ServerConfig.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/MalformedPathException.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/auth/KeyAuthenticationProvider.java  
\*  
/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/command/MonitorCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/ZooKeeperMain.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ZooKeeperCriticalThread.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/audit/AuditConstants.java

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* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/jmx/MBeanRegistry.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/RemotePeerBean.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/LeaderMXBean.java
*
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jar/org/apache/zookeeper/server/ExpiryQueue.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/LeaderRequestProcessor.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/NodeHashMapImpl.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/admin/CommandBase.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
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* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/Testable.java
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jar/org/apache/zookeeper/ZooKeeper.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/cli/StatCommand.java
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/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/quorum/FastLeaderElection.java
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* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
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* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/DigestCalculator.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/audit/Log4jAuditLogger.java
*
/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/command/TraceMaskCommand.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/watch/WatcherCleaner.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
jar/org/apache/zookeeper/server/ByteBufferOutputStream.java
* /opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-

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jar/org/apache/zookeeper/metrics/impl/NullMetricsProvider.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/LogFormatter.java  
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jar/org/apache/zookeeper/server/util/LogChopper.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/quorum/QuorumMXBean.java  
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\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/command/ConsCommand.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ServerStats.java  
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jar/org/apache/zookeeper/ZooKeeperTestable.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/quorum/LearnerHandler.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/cli/DeleteAllCommand.java  
\*  
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jar/org/apache/zookeeper/server/quorum/ObserverZooKeeperServer.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/quorum/flexible/QuorumVerifier.java  
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jar/org/apache/zookeeper/common/SSLContextAndOptions.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ClientCnxnLimitException.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/util/JvmPauseMonitor.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ZooKeeperThread.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/common/AtomicFileOutputStream.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/SessionTrackerImpl.java  
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jar/org/apache/zookeeper/Transaction.java

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jar/org/apache/zookeeper/MultiResponse.java

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jar/org/apache/zookeeper/OpResult.java

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jar/org/apache/zookeeper/server/admin/CommandResponse.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/Op.java

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jar/org/apache/zookeeper/server/watch/WatchesReport.java

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jar/org/apache/zookeeper/MultiOperationRecord.java

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jar/org/apache/zookeeper/server/watch/WatchesSummary.java

\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/watch/WatchesPathReport.java

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jar/org/apache/zookeeper/server/ZooKeeperServerConf.java

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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-jar/org/apache/zookeeper/server/util/RequestPathMetricsCollector.java

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jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java  
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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/ContainerManager.java  
\* /opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/EphemeralType.java  
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jar/org/apache/zookeeper/common/PathTrie.java

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jar/org/apache/zookeeper/common/PathUtils.java

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jar/org/apache/zookeeper/server/watch/WatcherModeManager.java

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/opt/cola/permits/1634239220\_1681207436.7456996/0/zookeeper-3-6-4-sources-  
jar/org/apache/zookeeper/server/util/CircularBuffer.java

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/opt/cola/permits/1634239220_1681207436.7456996/0/zookeeper-3-6-4-sources-
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jar/org/apache/zookeeper/server/watch/WatcherMode.java
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jar/org/apache/zookeeper/server/TxnLogEntry.java
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 */
```

Found in path(s):

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* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/http/StandardMediaTypes.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/ReplaceDeletable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/ServerSideApplicable.java
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/opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/V1PolicyAPIGroupDSL.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/LeaderElectionRecord.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/dsl/TtyExecErrorChannelable.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
jar/io/fabric8/kubernetes/client/utils/IOHelpers.java
* /opt/cola/permits/1634239329_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-
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jar/io/fabric8/kubernetes/client/DefaultKubernetesClient.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/NamespacedKubernetesClientAdapter.java  
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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/http/HttpResponse.java

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\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/META-INF/maven/io.fabric8/kubernetes-client-api/pom.xml

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\*/

Found in path(s):

\* /opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/lib/FilenameUtils.java

\*

/opt/cola/permits/1634239329\_1681207425.7699745/0/kubernetes-client-api-6-5-1-sources-jar/io/fabric8/kubernetes/client/lib/FileSystem.java

## 1.834 kubernetes-model-common 6.5.1

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Found in path(s):

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Version.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Plural.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/Kind.java

\*

/opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/SpecReplicas.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/annotation/ShortNames.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/JsonUnwrappedDeserializer.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/SettableBeanPropertyDelegate.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/BeanPropertyWriterDelegate.java

\* /opt/cola/permits/1634239315\_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-jar/io/fabric8/kubernetes/model/jackson/UnmatchedFieldTypeModule.java

\*



```
/opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Singular.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/PrinterColumn.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/LabelSelector.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Group.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/util/Helper.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/Scope.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/StatusReplicas.java
*
/opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/annotation/Generated.java
* /opt/cola/permits/1634239315_1681840524.299943/0/kubernetes-model-common-6-5-1-sources-
jar/io/fabric8/kubernetes/model/jackson/UnwrappedTypeResolverBuilder.java
```

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider

Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.

Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
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Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
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Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
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Paquet, Eric  
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Pasteurs, Frederic  
Percival, Ted  
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Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
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Stritzky, Tilo  
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Todd, Giles  
Toft, Martin  
Torek, Chris

Tucker, Darren  
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de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez,  
Francisco  
Fontenelle, Rafael  
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Hamasaki, Takeshi  
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Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
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# 1.838 containerd 1.7.0

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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](https://github.com/pelletier/localtime.go), [localtime\\_test.go](https://github.com/pelletier/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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go-runhcs is a fork of go-runc

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runc

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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).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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Protocol Buffers for Go with Gadgets

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

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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:javac.security.auth.message

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- \* org.eclipse.jetty.orbit:javac.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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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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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

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Apache

The following artifacts are ASL2 licensed.

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

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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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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.841 zstd 1.4.9

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## 1.842 jackson-module-blackbird 2.13.5

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### ### ASM

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## 1.843 cobra 1.7.0

### 1.843.1 Available under license :

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```
// Awesomeplete - Lea Verou - MIT license
```

Found in path(s):

```
* /opt/cola/permits/1652223637_1682398182.5844634/0/project-nisei-cobra-v1-7-0-0-g008e1ef-1-tar-gz/Project-NISEI-cobra-008e1ef/app/assets/javascripts/awesomeplete.js
```

## 1.844 jsr305 3.0.2

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```
/*  
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* (http://creativecommons.org/licenses/by/2.5)  
* Official home: http://www.jcip.net  
*/
```

Found in path(s):

```
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javafx/annotation/concurrent/ThreadSafe.java  
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javafx/annotation/concurrent/NotThreadSafe.java  
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javafx/annotation/concurrent/Immutable.java  
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-jar/javafx/annotation/concurrent/GuardedBy.java
```

# 1.845 docker 23.0.3+incompatible

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

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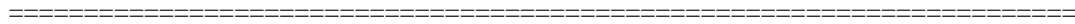
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Protocol Buffers for Go with Gadgets

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

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## 1.846 logr 1.2.4

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Package: logr

Title: Creates Log Files

Version: 1.2.4

Authors@R:

person(given = "David",

family = "Bosak",

```
role = c("aut", "cre"),
email = "dbosak01@gmail.com")
```

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,

utils

Imports: withr

VignetteBuilder: knitr

Roxygen: list(markdown = TRUE)

RoxygenNote: 7.1.1

Found in path(s):

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/DESCRIPTION
```

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```
/*!
```

```
* Bootstrap Table of Contents v0.4.1 (http://afeld.github.io/bootstrap-toc/)
```

```
* Copyright 2015 Aidan Feldman
```

```
* Licensed under MIT (https://github.com/afeld/bootstrap-toc/blob/gh-pages/LICENSE.md) */
```

Found in path(s):

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.css
```

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/bootstrap-toc.js
```

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```
/*
```

```
Source: https://github.com/algolia/docsearch/
```

```
License: MIT
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1659984856_1682927116.4079604/0/dbosak01-logr-v1-2-4-0-g8c5ac86-1-tar-gz/dbosak01-logr-8c5ac86/docs/docsearch.css
```



# 1.847 git 2.25.1-1ubuntu3.11

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# 1.848 lib-pq 1.10.9

## 1.848.1 Available under license :

```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
```

```

// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {

```

```
if c, ok := c.(*NoticeHandlerConnector); ok {
    c.noticeHandler = handler
    return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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# 1.849 utils 0.0.0-20230406110748-d93618cff8a2

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# 1.850 joda-time 2.12.5

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# 1.851 Icms 2.14

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```
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/HeadersUtils.java
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* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
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jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
*
```

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/LzfDecoder.java

\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/json/package-info.java

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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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\* Base64 Encoder/Decoder</a>.  
\*/

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jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/GzipOptions.java
*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/Brotli.java
*
/opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/compression/ZstdConstants.java
* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Crc32c.java  
\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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jar/io/netty/handler/codec/compression/Lz4XXHash32.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>
```

\* </pre>

```

* 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
*/

```

Found in path(s):

```

* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

```

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*/
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
*
* The encoding and decoding algorithm in this class has been derived from
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\* Base64 Encoder/Decoder.
*/

```

Found in path(s):

```

* /opt/cola/permits/1670233124_1683702446.9726822/0/netty-codec-4-1-92-final-sources-
jar/io/netty/handler/codec/base64/Base64.java

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Found in path(s):

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DecoderResult.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/package-info.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/CodecException.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/Snappy.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/serialization/ClassResolver.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/DecoderException.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/base64/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/bytes/package-info.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\*  
/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-jar/io/netty/handler/codec/xml/package-info.java  
\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/ReplayingDecoder.java

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\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/string/LineEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/CodecOutputList.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/compression/CompressionUtil.java

\*

/opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/DateFormatter.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/string/LineSeparator.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/DatagramPacketEncoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/DatagramPacketDecoder.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-

jar/io/netty/handler/codec/compression/ByteBufChecksum.java

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jar/io/netty/handler/codec/compression/EncoderUtil.java

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jar/io/netty/handler/codec/CharSequenceValueConverter.java

\* /opt/cola/permits/1670233124\_1683702446.9726822/0/netty-codec-4-1-92-final-sources-  
jar/io/netty/handler/codec/DefaultHeadersImpl.java

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jar/io/netty/handler/codec/ValueConverter.java

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jar/io/netty/util/concurrent/FastThreadLocalThread.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-  
jar/io/netty/util/internal/CleanerJava6.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/NetUtilSubstitutions.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/Future.java

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 jar/io/netty/util/internal/PlatformDependent0.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java  
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/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/CharCollections.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/ShortCollections.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-

jar/io/netty/util/internal/ObjectUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/IntObjectHashMap.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/LongCollections.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/CharObjectMap.java  
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/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/collection/ByteObjectMap.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java  
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jar/io/netty/util/internal/logging/InternalLogger.java  
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jar/io/netty/util/internal/logging/CommonsLogger.java  
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Found in path(s):

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ByteProcessorUtils.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ResourcesUtil.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>
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<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>
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</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>
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</plugin>
<plugin>
<groupId>org.apache.felix</groupId>
<artifactId>maven-bundle-plugin</artifactId>
<version>4.2.1</version>
<extensions>>true</extensions>
<configuration>
<instructions>
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    <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>
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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>
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  </configuration>
  <executions>
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      <goals>
        <goal>jar</goal>
      </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>
  <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>

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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>
</properties>
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<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):

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakTracker.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/MacAddressUtil.java

\*

/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java

```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ConstantTimeUtils.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/DomainNameMappingBuilder.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/logging/Log4J2Logger.java
*
/opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ThrowableUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/UnstableApi.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/PromiseNotificationUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/IntSupplier.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/BooleanSupplier.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/concurrent/PromiseCombiner.java
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Found in path(s):

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ObjectPool.java

\*

/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/package-info.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/Hidden.java

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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/ClassInitializerUtil.java
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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/MathUtil.java
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/ByteProcessor.java
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ThreadLocalRandom.java

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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/SuppressForbidden.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/LongAdderCounter.java

\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java

\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-

jar/io/netty/util/internal/ReflectionUtil.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/NettyRuntime.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/PriorityQueue.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/ObjectCleaner.java  
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\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java  
\*  
/opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/LongCounter.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/DomainMappingBuilder.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/HashingStrategy.java  
\* /opt/cola/permits/1670233208\_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/io/netty/util/AsyncMapping.java  
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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-
jar/io/netty/util/internal/SuppressJava6Requirement.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

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```
* /opt/cola/permits/1670233208_1683702502.0110958/0/netty-common-4-1-92-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
```

# 1.855 netty-transport-native-unix-common

## 4.1.92.Final

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java  
\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix.c  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix.h

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```
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml
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```
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/UnixChannelUtil.java
```

```
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_jni.h
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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java  
\*  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/IovArray.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/package-info.java  
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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_limits.c  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java  
\*

/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_limits.h  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_util.h  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/Limits.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/PeerCredentials.java  
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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java  
\*  
/opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java  
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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_buffer.c  
\*  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/netty\_unix\_buffer.h

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\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java  
\*  
\* /opt/cola/permits/1670233245\_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-jar/io/netty/channel/unix/FileDescriptor.java

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* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_socket.c
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_errors.c
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
*
/opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_socket.h
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/DomainSocketChannel.java
*
/opt/cola/permits/1670233245_1683702517.09824/0/netty-transport-native-unix-common-4-1-92-final-sources-
jar/io/netty/channel/unix/Errors.java

```

# 1.856 netty-resolver 4.1.92.Final

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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-  
jar/io/netty/resolver/HostsFileEntriesProvider.java

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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/AddressResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/HostsFileParser.java  
\*  
/opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/CompositeNameResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/DefaultNameResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/InetNameResolver.java  
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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/SimpleNameResolver.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/package-info.java

\*



/opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/AddressResolverGroup.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java  
\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/NoopAddressResolver.java  
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\* /opt/cola/permits/1670233273\_1683702629.4538295/0/netty-resolver-4-1-92-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

# 1.857 netty-transport 4.1.92.Final

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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/package-info.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/ChannelPool.java
```

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelGroup.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultChannelId.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelId.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AddressedEnvelope.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelMatcher.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelGroupException.java  
\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/MessageSizeEstimator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/ChannelFactory.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ConnectTimeoutException.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelMatchers.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractEventLoop.java

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jar/io/netty/channel/SimpleUserEventChannelHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/nio/NioChannelOption.java

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jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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```

* under the License.
*/
/**
* 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.
- \*/

Found in path(s):

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

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jar/io/netty/channel/socket/nio/SelectorProviderUtil.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/FailedChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/internal/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/internal/ChannelUtils.java  
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\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/NioTask.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/EventLoop.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java

\*

/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelFuture.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractServerChannel.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelMetadata.java

\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/AbstractChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelInitializer.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/package-info.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultFileRegion.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelPromise.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/DefaultEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/nio/NioSocketChannel.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelDuplexHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/nio/NioServerSocketChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelOutboundHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ServerChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/bootstrap/Bootstrap.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/oio/AbstractOioChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultChannelPipeline.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultChannelPromise.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/local/LocalServerChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/nio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/socket/oio/OioSocketChannel.java



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/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/group/CombinedIterator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/bootstrap/package-info.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/nio/package-info.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/local/LocalEventLoopGroup.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/ServerSocketChannel.java
*
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultChannelConfig.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/nio/NioEventLoop.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/EventLoopException.java
*

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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelInboundHandler.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/DefaultEventLoop.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/EventLoopGroup.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DatagramChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java  
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/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/FileRegion.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/VoidChannelPromise.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/oio/package-info.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
\*  
/opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-jar/io/netty/channel/local/LocalAddress.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-

jar/io/netty/channel/embedded/EmbeddedChannel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelHandlerContext.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1670233252\_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/oio/AbstractOioByteChannel.java  
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Found in path(s):

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* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelInboundInvoker.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/bootstrap/BootstrapConfig.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultSelectStrategyFactory.java  
*  
/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/WriteBufferWaterMark.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/group/VoidChannelGroupFuture.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/bootstrap/ServerBootstrapConfig.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/DefaultSelectStrategy.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/SelectStrategy.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/SelectStrategyFactory.java  
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-  
jar/io/netty/channel/ChannelOutboundInvoker.java  
*
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/opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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*/
```

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```
* /opt/cola/permits/1670233252_1683702460.2155154/0/netty-transport-4-1-92-final-sources-
jar/io/netty/channel/DefaultChannelHandlerContext.java
```

## 1.858 netty-handler 4.1.92.Final

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```

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Found in path(s):

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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Found in path(s):

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/TCPpacket.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/logging/LogLevel.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java  
\*  
/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/package-info.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/package-info.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/ChunkedInput.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java

```
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/logging/package-info.java
*
/opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
*
/opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1670233238_1683702589.2249768/0/netty-handler-4-1-92-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

\*

/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/traffic/package-info.java

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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java  
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\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java  
\*  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/SslProtocols.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/SslContextOption.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java



\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

\*  
/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java

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jar/io/netty/handler/ssl/Java8SslUtils.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\*  
/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/PemPrivateKey.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/flush/package-info.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/PemValue.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslCertificateException.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/PemX509Certificate.java  
\*  
/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/PemEncoded.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/DelegatingSslContext.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/flush/FlushConsolidationHandler.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/flow/package-info.java

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jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
\*  
/opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ClientAuth.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
\* /opt/cola/permits/1670233238\_1683702589.2249768/0/netty-handler-4-1-92-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java

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jar/io/netty/handler/flow/FlowControlHandler.java

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jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java

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### 4.1.92.Final

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jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.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 <a href="https://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */
```

Found in path(s):

```
*/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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jar/io/netty/channel/epoll/LinuxSocket.java
```

```
*/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/Native.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.

\*/

Found in path(s):

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java  
\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

\*

/opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollMode.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java

\*

/opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

\* /opt/cola/permits/1670233180\_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java

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* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/Epoll.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java
*
/opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
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```
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-
jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml
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```
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-  
jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties
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```

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```
* /opt/cola/permits/1670233180_1683702520.9659946/0/netty-transport-classes-epoll-4-1-92-final-sources-  
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#

builds/unix/pkg.m4

#

docs/FTL.TXT

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#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

```
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
#
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## 1.866 x-oauth2 0.8.0



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## 1.867 libgpg-error 1.37-1

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

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Gocheck - A rich testing framework for Go

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

package spec

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {  
    license := License{Name: "the name", URL: "the url"}  
    const licenseJSON = `{"name":"the name","url":"the url"}`  
    const licenseYAML = "name: the name\nurl: the url\n"  
  
    assertSerializeJSON(t, license, licenseJSON)  
    assertParsesJSON(t, licenseJSON, license)  
}
```

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# 1.876 servlet-api 3.0.1

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# 1.880 ncurses 6.2-0ubuntu2.1

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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-- vile:txtmode file-encoding=utf-8

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-- vile:txtmode fc=72

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: progs/tset.c ncurses/tinfo/read\_termcap.c

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-- vile: txtmode file-encoding=utf-8

# 1.881 systemd 245.4-4ubuntu3.22

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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## 1.882 prometheus-common 0.44.0

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# 1.883 masterminds-semver 3.2.1

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# This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender

#

# 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)
);
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/db/script/postgresql.sql
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```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender.
```

```
#
```

```
# 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

--

-- 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)
);

```

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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 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)
);
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
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/**
```

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\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/SessionIDConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/QueryStringConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ThreadNameConverter.java

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\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/FullResponseConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/RequestLogRegistry.java  
\*

/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/UrlCssBuilder.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/AccessContext.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/server/ServerSocketAppender.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LocalIPAddressConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SMTPAppender.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/PeriodicStats.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/Util.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/AccessConstants.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftingJoranConfigurator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/FullRequestConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/DefaultCssBuilder.java  
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\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LineSeparatorConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/EnsureLineSeparation.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RemoteHostConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestContentConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeServletOutputStream.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/html/HTMLLayout.java  
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\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByWeek.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ResponseHeaderConverter.java  
\*

/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/PatternLayoutEncoder.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RemoteUserConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeHttpServletResponse.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/JettyServerAdapter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RemoteIPAddressConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/NACConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/IAccessEvent.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/AccessEventDiscriminator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/tomcat/LogbackValve.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/CountingFilter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestCookieConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/LocalPortConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestHeaderConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeFilter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestURLConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatisticalView.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/StatusCodeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestMethodConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/DateConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeServletInputStream.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/SiftAction.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/JettyModernServerAdapter.java  
\*

/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/servlet/TeeHttpServletRequest.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ResponseContentConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMonth.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/jetty/RequestLogImpl.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestAttributeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestProtocolConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/AccessEventPreSerializationTransformer.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SSLSocketAppender.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByHour.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/JoranConfigurator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/ViewStatusMessagesServlet.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/filter/StatsByMinute.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/spi/AccessEvent.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/tomcat/TomcatServerAdapter.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/joran/action/ConfigurationAction.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/RequestURICConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ElapsedTimeConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/pattern/ContentLengthConverter.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/sift/AppenderFactoryUsingJoran.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/URLEvaluator.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/server/SSLServerSocketAppender.java  
\*  
/opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/net/SocketAppender.java  
\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-

```
jar/ch/qos/logback/access/spi/ServerAdapter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/sift/SiftingAppender.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/filter/StatisticalViewImpl.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/ServerNameConverter.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/spi/Util.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/pattern/RequestParameterConverter.java
*
/opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/net/SimpleSocketServer.java
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-
jar/ch/qos/logback/access/PatternLayout.java
```

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--

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-- This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender

--

```
DROP TABLE access_event_header
```

```
DROP TABLE access_event
```

```
CREATE TABLE access_event
```

```
(
  timestmp      BIGINT NOT NULL,
  requestURI    VARCHAR(254),
  requestURL    VARCHAR(254),
  remoteHost    VARCHAR(254),
  remoteUser    VARCHAR(254),
  remoteAddr    VARCHAR(254),
  protocol      VARCHAR(254),
  method        VARCHAR(254),
  serverName    VARCHAR(254),
  postContent   VARCHAR(254),
  event_id      INT NOT NULL identity,
  PRIMARY KEY(event_id)
)
```

```
CREATE TABLE access_event_header
```

```
(
```

```
event_id      INT NOT NULL,  
header_key  
    VARCHAR(254) NOT NULL,  
header_value  VARCHAR(1024),  
PRIMARY KEY(event_id, header_key),  
FOREIGN KEY (event_id) REFERENCES access_event(event_id)  
)
```

Found in path(s):

```
* /opt/cola/permits/1696247542_1685058174.793666/0/logback-access-1-2-12-sources-  
jar/ch/qos/logback/access/db/script/msSQLServer.sql
```

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```
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```

```
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```

```
#
```

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```

```
# conditions.
```

```
# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender
```

```
#
```

```
# It is intended for 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));

Found in path(s):

\* /opt/cola/permits/1696247542\_1685058174.793666/0/logback-access-1-2-12-sources-jar/ch/qos/logback/access/db/script/hsqldb.sql

# 1.886 openssl 1.1.1f-1ubuntu2.19

## 1.886.1 Available under license :

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## 1.890 j2objc-annotations 2.8

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```

Found in path(s):

```
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/OnDealloc.java  
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java  
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-  
jar/com/google/j2objc/annotations/LoopTranslation.java  
*
```

```
/opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/ReflectionSupport.java
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jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/WeakOuter.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/RetainedWith.java
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```
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1704412778_1685746927.655543/0/j2objc-annotations-2-8-sources-
jar/com/google/j2objc/annotations/AutoreleasePool.java
```

# 1.891 openssl 1.1.1u

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## 1.892 libssh 0.9.3-2ubuntu2.3

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## 1.893 python 3.8.10-0ubuntu1~20.04.8

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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| 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                 |
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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

In-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 typedef 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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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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- \*
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- \*
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Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

Source: <https://github.com/lz4/lz4>

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Upstream-Contact: Kenneth Reitz <[me@kennethreitz.com](mailto:me@kennethreitz.com)>

Source: <https://pypi.org/project/requests/>

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## 1.908 scala-collection-compat\_2.13 2.10.0

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Found in path(s):

```
* /opt/cola/permits/1719630887_1686604745.8385057/0/scala-collection-compat-2-13-2-10-0-sources-jar/scala/util/control/compat/package.scala  
* /opt/cola/permits/1719630887_1686604745.8385057/0/scala-collection-compat-2-13-2-10-0-sources-jar/scala/collection/compat/immutable/package.scala  
* /opt/cola/permits/1719630887_1686604745.8385057/0/scala-collection-compat-2-13-2-10-0-sources-jar/scala/collection/compat/package.scala
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## 1.909 reload4j 1.2.25

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# 1.910 python-pip 20.0.2-5ubuntu1.9

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
| 2.5.2   | 2.5.1        | 2008 | PSF   | yes                 |
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| 2.6.5   | 2.6.4        | 2010 | PSF   | yes                 |
| 3.0     | 2.6          | 2008 | PSF   | yes                 |
| 3.0.1   | 3.0          | 2009 | PSF   | yes                 |
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| 3.1.1   | 3.1          | 2009 | PSF   | yes                 |
| 3.1.2   | 3.1.1        | 2010 | PSF   | yes                 |
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| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | 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 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 | 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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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.

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## 1.911 util-linux 2.34-0.1ubuntu9.4

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# 1.912 libnss-nisplus 2.31

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## 1.913 libnss-nis 2.31

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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#

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#

builds/unix/pkg.m4

#

docs/FTL.TXT

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#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

```
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
#
EOF
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Version 3, 29 June 2007

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```

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```
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## 1.927 prometheus-procfs 0.10.1

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

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# 1.930 squirrel 1.5.4

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## 1.931 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 instrumentation 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.metrics,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";version="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.http.client.utils,org.apache.http.config,org.apache.http.conn,org.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.ssl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.http.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):

\* /opt/cola/permits/1734075126\_1695634098.003408/0/metrics-httpclient-4-2-19-jar/META-INF/MANIFEST.MF

# 1.932 guava 32.1.1-jre

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# 1.933 netty-codec 4.1.94.Final

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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Crc32.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java



\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/FastLz.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ValueConverter.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/CharSequenceValueConverter.java

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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/UnsupportedValueConverter.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/HeadersUtils.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/ProtocolDetectionState.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java

\*

/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/ProtocolDetectionResult.java

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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io.netty.handler.codec.compression/EncoderUtil.java

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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io.netty.handler.codec.string/LineSeparator.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io.netty.handler.codec/CodecOutputList.java

```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
*
/opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.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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```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/META-
INF/maven/io.netty/netty-codec/pom.xml
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- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
- \*
- /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/xml/package-info.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
- \*
- /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
- \*
- /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/EncoderException.java
- \* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java

\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java  
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/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/string/package-info.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/CodecException.java  
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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
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/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-

jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/base64/package-info.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/ChannelByteBufferInput.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/ZlibEncoder.java  
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\*/  
/\*\*  
\* Utility class for {@link ByteBuf} that encodes and decodes to and from  
\* [Base64](https://en.wikipedia.org/wiki/Base64) 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>.
*/
```

Found in path(s):

```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
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* under the License.
*/
/*
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* https://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

```
* /opt/cola/permits/1735715921_1688166920.9934118/0/netty-codec-4-1-94-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
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jar/io/netty/handler/codec/DefaultHeaders.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/EmptyHeaders.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/Headers.java

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jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/Brotli.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java  
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/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java  
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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
\* /opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
\*  
/opt/cola/permits/1735715921\_1688166920.9934118/0/netty-codec-4-1-94-final-sources-  
jar/io/netty/handler/codec/compression/Crc32c.java

## 1.934 netty-transport-native-unix-common

### 4.1.94.Final

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-  
jar/io/netty/channel/unix/RawUnixChannelOption.java  
\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-  
jar/io/netty/channel/unix/GenericUnixChannelOption.java  
\*  
/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-  
jar/io/netty/channel/unix/IntegerUnixChannelOption.java



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jar/netty_unix_util.c
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
*
 /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_limits.c
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_util.h
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_limits.h
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  - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_errors.h
  - \*
    - /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_socket.h
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Socket.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_filedescriptor.c
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_filedescriptor.h
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Errors.java
  - \*
    - /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/UnixChannel.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_errors.c
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
    - \* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix\_socket.c
  - \*
    - /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
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* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
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jar/io/netty/channel/unix/Buffer.java
```

```
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
```

```
*
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```
/opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_buffer.c
```

```
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/netty_unix_buffer.h
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jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
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jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1735716026_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-
jar/io/netty/channel/unix/IovArray.java
*
```

/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/package-info.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/Unix.java

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java

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/opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java

\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/io/netty/channel/unix/DomainDatagramChannel.java

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\* /opt/cola/permits/1735716026\_1688166875.313498/0/netty-transport-native-unix-common-4-1-94-final-sources-jar/netty\_unix.h

# 1.935 netty-resolver 4.1.94.Final

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\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/CompositeNameResolver.java  
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\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/InetAddressResolver.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/AddressResolver.java  
\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java

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* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1735715995_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-
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jar/io/netty/resolver/NoopAddressResolverGroup.java
```

\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

\*

/opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/package-info.java

\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

\* /opt/cola/permits/1735715995\_1688166915.6076818/0/netty-resolver-4-1-94-final-sources-jar/io/netty/resolver/NameResolver.java

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## 1.936 netty-handler 4.1.94.Final

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Found in path(s):

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io.netty.handler.ssl.util/SelfSignedCertificate.java

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jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java

\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/address/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/BouncyCastlePemReader.java

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jar/io/netty/handler/pcap/State.java

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jar/io/netty/handler/ssl/OptionalSslHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/Conscrypt.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

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jar/io/netty/handler/ssl/SniCompletionEvent.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
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jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/BouncyCastle.java
*
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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslProtocols.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/Ciphers.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/IPPacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/UDPPacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/TCPpacket.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/package-info.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/flow/package-info.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/PemValue.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

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jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java

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jar/io/netty/handler/logging/package-info.java

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jar/io/netty/handler/ssl/package-info.java

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jar/io/netty/handler/logging/LogLevel.java

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/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/stream/ChunkedNioStream.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/NotSslRecordException.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/timeout/IdleState.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/package-info.java

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jar/io/netty/handler/timeout/package-info.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/timeout/TimeoutException.java

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jar/io/netty/handler/stream/ChunkedFile.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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Found in path(s):

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java

\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/SslUtils.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ipfilter/package-info.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java

\*

/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/JdkSslServerContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslClientContext.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ipfilter/UniqueIpFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkSslEngine.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSsl.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/CipherSuiteFilter.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkSslContext.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/JdkSslClientContext.java

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* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
*
/opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ipfilter/IpFilterRule.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /opt/cola/permits/1735716183_1688166915.4300108/0/netty-handler-4-1-94-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/package-info.java

\*

\*/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SslContextBuilder.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ClientAuth.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/logging/ByteBufFormat.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ipfilter/IpSubnetFilter.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/SslClosedEngineException.java

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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-

jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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jar/io/netty/handler/ssl/OpenSslPrivateKey.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslSession.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/ExtendedOpenSslSession.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\*  
/opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java  
\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java  
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\* /opt/cola/permits/1735716183\_1688166915.4300108/0/netty-handler-4-1-94-final-sources-  
jar/io/netty/handler/flow/FlowControlHandler.java

# 1.937 netty-transport-classes-epoll

## 4.1.94.Final

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```
* /opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-  
jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties
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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 https://linux.die.net/man/7/tcp TCP_QUICKACK  
* for more details.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-  
jar/io.netty/channel/epoll/EpollSocketChannelConfig.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.
 */
```

Found in path(s):

```
*/opt/cola/permits/1735715951_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
```

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jar/io/netty/channel/epoll/Epoll.java
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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java

\*

/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java

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/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java  
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/opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java  
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\* /opt/cola/permits/1735715951\_1688166917.5067825/0/netty-transport-classes-epoll-4-1-94-final-sources-jar/io/netty/channel/epoll/EpollMode.java  
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jar/io/netty/bootstrap/FailedChannel.java  
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jar/io/netty/channel/internal/package-info.java  
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jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
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jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
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jar/io/netty/channel/pool/AbstractChannelPoolMap.java
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jar/io/netty/channel/pool/ChannelPoolHandler.java
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\*

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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;&gt;{ @link Channel}&gt;&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;&gt;Message&gt; {
*     private final { @link AttributeKey}&lt;&gt;{ @link Boolean}&gt;&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;&gt;{ @link Boolean}&gt;&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;&gt;{ @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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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-

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jar/io/netty/bootstrap/ServerBootstrapConfig.java  
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jar/io/netty/channel/local/LocalChannelRegistry.java
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jar/io/netty/channel/ChannelMetadata.java
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jar/io/netty/channel/socket/ServerSocketChannel.java  
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jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
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jar/io/netty/channel/AbstractChannelHandlerContext.java  
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jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ChannelFuture.java  
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jar/io/netty/channel/ChannelInitializer.java

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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/AbstractServerChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/LocalChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-

jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/SocketChannel.java  
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jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
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jar/io/netty/channel/socket/nio/NioDatagramChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/EventLoopException.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/bootstrap/ServerBootstrap.java  
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jar/io/netty/channel/oio/AbstractOioByteChannel.java  
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jar/io/netty/channel/DefaultEventLoop.java  
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jar/io/netty/channel/DefaultFileRegion.java  
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jar/io/netty/channel/ServerChannel.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/DefaultChannelConfig.java  
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jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/SucceededChannelFuture.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/local/LocalEventLoopGroup.java  
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jar/io/netty/channel/EventLoop.java  
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jar/io/netty/bootstrap/package-info.java  
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jar/io/netty/channel/socket/oio/OioSocketChannel.java  
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jar/io/netty/channel/ChannelPromiseNotifier.java

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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/local/LocalAddress.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java  
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\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
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/opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java  
\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java  
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jar/io/netty/channel/oio/OioByteStreamChannel.java

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jar/io/netty/channel/SimpleUserEventChannelHandler.java

\* /opt/cola/permits/1735716162\_1688166869.6417358/0/netty-transport-4-1-94-final-sources-  
jar/io/netty/channel/socket/nio/NioChannelOption.java

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jar/io/netty/channel/socket/nio/SelectorProviderUtil.java
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jar/io/netty/util/internal/MathUtil.java
*/opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/Hidden.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java  
\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-

jar/io/netty/util/internal/ReferenceCountUpdater.java

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jar/io/netty/util/internal/ObjectPool.java

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jar/io/netty/util/concurrent/RejectedExecutionHandlers.java

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jar/io/netty/util/internal/OutOfDirectMemoryError.java

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jar/io/netty/util/concurrent/PromiseCombiner.java

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jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

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jar/io/netty/util/internal/logging/Log4J2Logger.java

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jar/io/netty/util/internal/SocketUtils.java

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jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java

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jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java

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jar/io/netty/util/ResourceLeakTracker.java

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jar/io/netty/util/IntSupplier.java

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jar/io/netty/util/internal/ConstantTimeUtils.java

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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java  
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java  
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/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java  
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jar/io/netty/util/concurrent/FutureListener.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FailedFuture.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/DefaultAttributeMap.java

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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java  
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<tag>HEAD</tag>
</scm>

<developers>
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</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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<java.test.version>1.8</java.test.version>

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<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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Found

in path(s):

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-

INF/maven/org.jctools/jctools-core/pom.xml

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\*/

Found in path(s):

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java

\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ResourceLeakHint.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/AsciiString.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/Mapping.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/ThreadDeathWatcher.java

\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/IntegerHolder.java

\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/DomainNameMapping.java

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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
*
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\* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedListNode.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
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INF/native-image/io.netty.netty-common/native-image.properties
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```

```
io.netty.util.internal.Hidden$NettyBlockHoundIntegration
```

Found in path(s):

```
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
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jar/io/netty/util/internal/ThreadLocalRandom.java
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/ByteCollections.java
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/LongObjectMap.java
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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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jar/io/netty/util/internal/ObjectUtil.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/IntCollections.java
*
/opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/ShortCollections.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/ByteObjectHashMap.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
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\*

/opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/logging/FormattingTuple.java

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* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/LongAdderCounter.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/PriorityQueue.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/ReflectionUtil.java
*
/opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/EmptyPriorityQueue.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/SuppressForbidden.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/internal/ObjectCleaner.java
* /opt/cola/permits/1735715999_1688166888.7344394/0/netty-common-4-1-94-final-sources-
jar/io/netty/util/NettyRuntime.java
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- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/CleanerJava9.java
- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
- \* /opt/cola/permits/1735715999\_1688166888.7344394/0/netty-common-4-1-94-final-sources-jar/io/netty/util/internal/Cleaner.java

# 1.940 metrics 4.2.19

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# 1.947 oras.land-oras-go 1.2.3

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## 1.948 metrics-jmx 4.2.19

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# 1.955 kubernetes v1.26.6

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package migration

```
import "fmt"
```

```
// Notice is a migration warning
```

```
type Notice struct {
```

```
    Plugin    string
```

```
    Option    string
```

```
    Severity  string // 'deprecated', 'removed', or 'unsupported'
```

```
    ReplacedBy string
```

```
    Additional string
```

```
    Version  string
```

```
}
```

```
func (n *Notice) ToString() string {
```

```
    s := ""
```

```
    if n.Option == "" {
```

```
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
```

```
    } else {
```

```
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
```

```
    }
```

```
    if n.Severity == SevUnsupported {
```

```
        s += "is unsupported by this migration tool in " + n.Version + "."
```

```
    } else if n.Severity == SevNewDefault {
```

```
        s += "is added as a default in " + n.Version + "."
```

```
    } else {
```

```

s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
s += fmt.Sprintf(" It is replaced by "%v".", n.ReplacedBy)
}
if n.Additional != "" {
s += " " + n.Additional
}
return s
}

const (
// The following statuses are used to indicate the state of support/deprecation in a given release.
SevDeprecated = "deprecated"
// deprecated, but still completely functional
SevIgnored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
SevRemoved = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not
present in the corefile.
SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

```

// The following statuses are used for selecting/filtering notifications

SevAll = "all" // show all statuses

)

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

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package simulator

import (

"github.com/vmware/govmomi/vim25/methods"

"github.com/vmware/govmomi/vim25/mo"

"github.com/vmware/govmomi/vim25/soap"

"github.com/vmware/govmomi/vim25/types"

)



```

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
  LicenseKey: "00000-00000-00000-00000-00000",
  EditionKey: "eval",
  Name:      "Evaluation Mode",
  Properties: []types.KeyAnyValue{
    {
      Key: "feature",
      Value: types.KeyValue{
        Key: "serialuri:2",
        Value: "Remote virtual Serial Port Concentrator",
      },
    },
    {
      Key: "feature",
      Value: types.KeyValue{
        Key: "dvs",
        Value: "vSphere Distributed Switch",
      },
    },
  },
}

type LicenseManager struct {
  mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
  m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

  if
  r.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{},
  }

  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }
}

```

```

m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:    req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{ },
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    return
    body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{ }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
            }
        }
        return body
    }
}

```

```

    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key: req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{ },
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

```

```
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {  
    info := EvalLicense  
  
    info.LicenseKey = key  
    info.Labels = labels  
  
    return info  
}
```

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=====  
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=====

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package spec

// License information for the exposed API.

//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

    Name string `json:"name,omitempty"`

    URL string `json:"url,omitempty"`

}

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

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#  
# An entry with two email addresses specifies that the  
# first address should be used in the submit logs and  
# that the second address should be recognized as the  
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# Please keep the list sorted.

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The common/types/pb/equal.go modification of proto.Equal logic

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# 1.958 x-term 0.10.0

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Found in path(s):

\* /opt/cola/permits/1750760496\_1690280941.7610857/0/dropwizard-jetty-2-1-7-sources-jar/io/dropwizard/jetty/LocalIpFilter.java

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Found in path(s):

\* /opt/cola/permits/1750760496\_1690280941.7610857/0/dropwizard-jetty-2-1-7-sources-



## 1.963 metrics-servlets 4.2.19

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## 1.964 logback-throttling-appender 1.1.10

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\* /opt/cola/permits/1750760651\_1690280945.87393/0/logback-throttling-appender-1-1-10-sources-jar/META-INF/maven/io.dropwizard.logback/logback-throttling-appender/pom.xml

## 1.965 metrics-annotation 4.2.19

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\* /opt/cola/permits/1750760603\_1690280951.9056036/0/dropwizard-logging-2-1-7-sources-jar/io/dropwizard/logging/ResilientOutputStreamBase.java

## 1.967 dropwizard-core 2.1.7

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## 1.968 dropwizard-servlets 2.1.7

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\* /opt/cola/permits/1750760560\_1690280964.5942748/0/dropwizard-validation-2-1-7-sources-

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## 1.976 dropwizard-lifecycle 2.1.7

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## 1.977 metrics-jvm 4.2.19

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# 1.979 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, and 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.metrics,com.codahale.metrics.annotation,javax.servlet,javax.servlet.http,org.eclipse.jetty.io,org.eclipse.jetty.server,org.eclipse.jetty.server.handler,org.eclipse.jetty.util.annotation,org.eclipse.jetty.util.component,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.http;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.eclipse.jetty.server;version="[9.4,10)",org.eclipse.jetty.server.handler;version="[9.4,10)",org.eclipse.jetty.util.annotation;version="[9.4,10)",org.eclipse.jetty.util.component;version="[9.4,10)",org.eclipse.jetty.util.thread;version="[9.4,10)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Found in path(s):

\* /opt/cola/permits/1750760659\_1690280984.1164134/0/metrics-jetty9-4-2-19-jar/META-INF/MANIFEST.MF



# 1.980 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.classic.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.logback.classic.spi;version="[1.2,2)",ch.qos.logback.core;version="[1.2,2)",com.codahale.metrics;version="[4.2,5)"  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Found in path(s):

\*

/opt/cola/permits/1750760511\_1690280987.966312/0/metrics-logback-4-2-19-jar/META-INF/MANIFEST.MF

# 1.981 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 Jersey, 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.metrics,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.metrics.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;version="[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

Found in path(s):

\* /opt/cola/permits/1750760630\_1690280989.7830713/0/metrics-jersey2-4-2-19-jar/META-INF/MANIFEST.MF

## 1.982 metrics-caffeine 4.2.19

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*/
```

Found in path(s):

\* /opt/cola/permits/1754271858\_1690525899.9397342/0/metrics-caffeine-4-2-19-sources-jar/com/codahale/metrics/caffeine/MetricsStatsCounter.java

## 1.983 dropwizard-forms 2.1.7

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# 1.988 amqp-client 5.17.0

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Manifest-Version: 1.0

Bundle-Description: The RabbitMQ Java client library allows Java applications 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://www.gnu.org/licenses/gpl-2.0.txt>, <https://www.mozilla.org/en-US/MPL/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:=optional,com.fasterxml.jackson.core;version="[2.14,3)";resolution:=optional,com.fasterxml.jackson.databind;version="[2.14,3)";resolution:=optional,com.fasterxml.jackson.databind.node;version="[2.14,3)";resolution:=optional,com.rabbitmq.client,com.rabbitmq.client.impl,com.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.tools.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;resolution:=optional,javax.naming,javax.naming.directory,javax.net,javax.net.ssl,javax.security.auth.callback,javax.security.auth.x500,javax.security.sasl,org.slf4j;version="[1.7,2)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-6.3.1.202206071316

Implementation-Vendor: VMware, Inc. or its affiliates.  
Export-Package: com.rabbitmq.client;uses:="com.rabbitmq.client.impl,com.rabbitmq.client.impl.nio,com.rabbitmq.client.impl.recovery,com.rabbitmq.utility,javax.net,javax.net.ssl";version="5.17.0",com.rabbitmq.client.impl;uses:="com.codahale.metrics,com.rabbitmq.client,com.rabbitmq.client.impl.recovery,com.rabbitmq.utility,io.micrometer.core.instrument,io.opentelemetry.api,io.opentelemetry.api.common,javax.net,javax.net.ssl";version="5.17.0",com.rabbitmq.client.impl.nio;uses:="com.rabbitmq.client,com.rabbitmq.client.impl,javax.net.ssl";version="5.17.0",com.rabbitmq.client.impl.recovery;uses:="com.rabbitmq.client,com.rabbitmq.client.impl";version="5.17.0",com.rabbitmq.tools;version="5.17.0",com.rabbitmq.tools.json;version="5.17.0",com.rabbitmq.tools.jsonrpc;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):

\* /opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-jar/META-INF/MANIFEST.MF  
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-

jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches  
/opt/cola/permits/1758004428\_1690997396.0997193/0/amqp-client-5-17-0-  
jar/com/rabbitmq/client/impl/Copyright.class: binary file matches

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\* /bin/grep

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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 measurements 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.metrics,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):

\* /opt/cola/permits/1758004481\_1690997391.3641589/0/metrics-graphite-4-2-19-jar/META-INF/MANIFEST.MF

# 1.990 dropwizard-metrics-graphite 2.1.7

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## 1.991 x-net 0.13.0

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## 1.992 mobile-cnat-golang-lib-go-diameter

### 4.0.6-0.20230802184116-1192ff7e0992

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# Names should be added to this file as
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#
# The email address is not required for organizations.
#
# Please keep the list sorted.
#
# Use the following command to generate the list
#
# git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
# and do appropriate cleanups.
```

```
DanB <danb@cgrates.org>
David Wilkie <dwilkie@gmail.com>
Seyi Ogunyemi <micrypt@users.noreply.github.com>
Tapio <fitase@emblacom.com>
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# 1.996 kube-openapi 0.0.0-20221012153701-172d655c2280

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

package spec

```
import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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## 1.998 yaml 1.3.0

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## 1.1007 goprotobuf 1.5.3

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## 1.1008 kustomize-api 0.13.5-

### 0.20230601165947-6ce0bf390ce3

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- \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha1.kt
  - \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha512.kt
  - \* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Sha256.kt
  - \*
  - \*/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/hashFunctions/okio/internal/Md5.kt
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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonAppleMain/okio/ByteString.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/CommonPlatform.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/Utf8.kt  
\*  
/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/NonJvmPlatform.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/ByteString.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/ByteString.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Util.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/appleMain/okio/ByteString.kt  
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\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Buffer.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Sink.kt  
\*  
/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Okio.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/BufferedSource.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/RealBufferedSink.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Source.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Sink.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/Timeout.kt

\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/internal/Buffer.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/BufferedSink.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/RealBufferedSource.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Timeout.kt  
\*  
/opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/BufferedSink.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/commonMain/okio/BufferedSource.kt  
\* /opt/cola/permits/1779742482\_1693226770.6289008/0/okio-3-5-0-sources-1-jar/nonJvmMain/okio/Buffer.kt

# 1.1014 elfutils 0.176-1.1ubuntu0.1

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## 1.1022 vim 8.1.2269-1ubuntu5.17

# 1.1023 golang 1.20.8

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## 1.1024 zookeeper-jute 3.8.2

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```
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/META-INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml
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```
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
```



jar/org/apache/jute/compiler/generated/ParseException.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/TokenMgrError.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/RccConstants.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/rcc.jj  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/Rcc.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/RccTokenManager.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/Token.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/generated/SimpleCharStream.java  
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jar/org/apache/jute/compiler/generated/package.html  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/compiler/package.html  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/jute/package.html  
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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/OutputArchive.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JType.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JavaGenerator.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JFloat.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JInt.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JBoolean.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JVector.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JFile.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/InputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/RecordWriter.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/Index.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/ToStringOutputArchive.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JRecord.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JByte.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/jute/compiler/JString.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-

```
jar/org/apache/jute/Record.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/JMap.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/Utils.java
*
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/RecordReader.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/JLong.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/JBuffer.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/CSharpGenerator.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/JField.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/BinaryOutputArchive.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/BinaryInputArchive.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/JCompType.java
*
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/CGenerator.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/jute/compiler/JDouble.java
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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/data/StatPersisted.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/TxnHeader.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CreateResponse.java

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\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetChildren2Request.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SyncRequest.java

\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/data/ACL.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CheckWatchesRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/MultiTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/SetACLTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetWatches.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/Txn.java

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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetACLResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ReplyHeader.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetACLResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CloseSessionTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-

jar/org/apache/zookeeper/server/quorum/LearnerInfo.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/ErrorTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/CreateTTLTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/DeleteTxn.java  
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jar/org/apache/zookeeper/data/ClientInfo.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetSASLResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/CreateTxnV0.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/data/Id.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ExistsResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/GetChildrenResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/WatcherEvent.java  
\*  
/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/txn/SetMaxChildrenTxn.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/WhoAmIResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/Create2Response.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/AuthPacket.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/ConnectResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/data/Stat.java  
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/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
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jar/org/apache/zookeeper/proto/ErrorResponse.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java  
\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-  
jar/org/apache/zookeeper/proto/CreateTTLRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetDataRequest.java

\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CreateContainerTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetChildrenRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CreateSessionTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CreateTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/CheckVersionTxn.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetEphemeralsResponse.java

\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/ConnectRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/txn/TxnDigest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/AddWatchRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetDataResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetACLRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetWatches2.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/CreateRequest.java

\*

/opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/SetDataResponse.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-jar/org/apache/zookeeper/proto/MultiHeader.java

\* /opt/cola/permits/1788578594\_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-

```
jar/org/apache/zookeeper/proto/GetDataRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/SyncResponse.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/DeleteRequest.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/server/persistence/FileHeader.java
*
/opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/RequestHeader.java
* /opt/cola/permits/1788578594_1694101327.6219897/0/zookeeper-jute-3-8-2-sources-
jar/org/apache/zookeeper/proto/GetEphemeralsRequest.java
```

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jar/org/apache/zookeeper/server/package.html
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jar/org/apache/zookeeper/server/ContainerManager.java  
\*

/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/EphemeralTypeEmulate353.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/EphemeralType.java

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jar/org/apache/zookeeper/server/admin/CommandResponse.java  
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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/Transaction.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/WatchesPathReport.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/WatchesReport.java



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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/WatchesSummary.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/Op.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/MultiResponse.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/MultiOperationRecord.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/OpResult.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/ZooKeeperServerConf.java
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jar/org/apache/zookeeper/server/util/RequestPathMetricsCollector.java  
\*

/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
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jar/org/apache/zookeeper/common/PathUtils.java  
\*

/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/common/PathTrie.java

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jar/org/apache/zookeeper/server/util/MessageTracker.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/WatcherModeManager.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/controller/ControllerService.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/controller/ControllableConnection.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/util/CircularBuffer.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/controller/CommandListener.java

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jar/org/apache/zookeeper/server/controller/ZooKeeperServerController.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/NIOServerCnxn.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ConnectionMXBean.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ByteBufferInputStream.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ServerConfig.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/common/ZKTrustManager.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/FollowerZooKeeperServer.java

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jar/org/apache/zookeeper/version/VersionInfoMain.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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*
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jar/org/apache/zookeeper/server/util/LogChopper.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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jar/org/apache/zookeeper/server/command/IsroCommand.java
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jar/org/apache/zookeeper/server/command/ConsCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/DigestWatcher.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/metric/Metric.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
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jar/org/apache/zookeeper/metrics/Summary.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/ReconfigCommand.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/NettyServerCnxnFactory.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/persistence/FileTxnLog.java  
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/quorum/ProposalRequestProcessor.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/SyncRequestProcessor.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/Login.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/metric/AvgMinMaxCounter.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/MalformedPathException.java

\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/persistence/TxnLog.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/command/MonitorCommand.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/ClientCnxnSocketNetty.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/cli/CloseCommand.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/server/ResponseCache.java

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/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-jar/org/apache/zookeeper/Shell.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/ServerCnxnFactory.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/watch/IDeadWatcherListener.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/CliCommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/quorum/ObserverRequestProcessor.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/common/ZKConfig.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/metric/AvgMinMaxPercentileCounterSet.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-

```
jar/org/apache/zookeeper/metrics/CounterSet.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/cli/GetCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/ServerStats.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/AddWatchMode.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/KeyStoreFileType.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/NettyServerCnxn.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/X509Exception.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/SaslClientCallbackHandler.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/metric/AvgMinMaxCounterSet.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/auth/AuthenticationProvider.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/FollowerBean.java
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Found in path(s):

```
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/TxnLogEntry.java
*
```

```
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbedded.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/BCFKSFileLoader.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/WatcherMode.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/CommandClient.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/ControlCommand.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/SnapshotComparer.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/ControllableConnectionFactory.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/watch/PathParentIterator.java
*
/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/embedded/ExitHandler.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/util/CircularBlockingQueue.java
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/controller/ControllerServerConfig.java
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```

Found in path(s):

```
* /opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/quorum/MultipleAddresses.java
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```

Found in path(s):

```
*/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/common/StringUtils.java
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*/opt/cola/permits/1788578587_1694101330.912668/0/zookeeper-3-8-2-sources-
jar/org/apache/zookeeper/server/Request.java
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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/SyncCommand.java  
\*  
/opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/GetAllChildrenNumberCommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/VersionCommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/GetAclCommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/GetEphemeralsCommand.java  
\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/cli/LsCommand.java

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\* /opt/cola/permits/1788578587\_1694101330.912668/0/zookeeper-3-8-2-sources-  
jar/org/apache/zookeeper/server/embedded/ZooKeeperServerEmbeddedImpl.java

# 1.1026 golang 1.19.13

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```
import: ../../../../fossene/db/schema/thing.yml
```

fields:

site: string

author: root

# 1.1028 cyphar-filepath-securejoin 0.2.4

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# 1.1029 linux-libc-dev 5.4.0-163.180

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```

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```
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```

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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

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```

```
package spec
```

```
import "testing"
```

```
func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{ "name": "the name", "url": "the url" }`
    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}
```

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# 1.1037 kubernetes-component-base 0.28.2

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# 1.1039 kubernetes-cliruntime 0.27.3

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localtime.go, localtime\_test.go:

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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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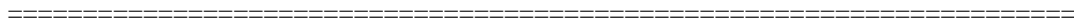
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Protocol Buffers for Go with Gadgets

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

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<https://github.com/golang/protobuf>

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# 1.1045 sql-migrate 1.5.2

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# 1.1046 kubernetes-apiserver 0.28.2

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# 1.1047 google-golang-org-genproto 0.0.0-20200513103714-09dca8ec2884

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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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```
* /opt/cola/permits/1815024093_1696602312.9668024/0/kotlin-1-9-10-2-tgz/package/kotlin.js
```

# 1.1056 spew 1.1.1

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# 20180127040603-bd5ef7bd5415

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# 1.1058 mergo 0.3.13

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```



author: root

# 1.1059 gofuzz 1.2.0

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# 1.1060 grpc-gateway 1.16.0

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## 1.1061 logrus 1.9.0

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## 1.1062 urfave-cli 1.22.4

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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
- 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
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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

may be obtained from:

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Eclipse

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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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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

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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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OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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== Contributors ==

- \* Tatu Saloranta
  - \* Providing benchmark suite
- \* Alec Wysoker
  - \* Performance and memory usage improvement

# 1.1082 jetty 9.4.51.v20230217

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org.apache.tomcat:tomcat-util-scan  
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org.eclipse.jetty.toolchain:jetty-schemas

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# 1.1083 go-restful 3.9.0

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# 1.1085 openjdk-jre 1.8.0u382

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# 1.1086 jdk-zulu 8.72.0.17-1

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# 1.1089 spring-framework 5.0.2.RELEASE

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