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That's all there is to it!

1.2 libjpeg 7

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1.3 libjpeg 6b

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README for release 6b of 27-Mar-1998

=====

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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.
coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not

exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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

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

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

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

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

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

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

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

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CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

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](ftp://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](ftp://ftp.uu.net) (Internet

address 192.48.96.9). The most recent released version can always be found

there in directory [graphics/jpeg](ftp://ftp.uu.net/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](ftp://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](ftp://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/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

=====

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free 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

=====

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

=====

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.

1.4 libsigar 1.6.5

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1.5 stun-server 0.97

1.5.1 Available under license :

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1.6 lcms 2.11

1.6.1 Available under license :

Little CMS

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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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1.7 libjpeg 9d

1.7.1 Notifications :

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1.7.2 Available under license :

The Independent JPEG Group's JPEG software

=====

README for release 9c of 14-Jan-2018

=====

This distribution contains the ninth 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.

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

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.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.

example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt
Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some 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 encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

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. 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 IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

REFERENCES

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We 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 PDF file containing a revised version of Wallace's article is available at <http://www.iijg.org/files/Wallace.JPEG.pdf>. 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 currently available 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).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG 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.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone

still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

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 <http://www.ijg.org/files/>. 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.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

=====

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification.

Furthermore,

the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

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The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must

be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.
No license file was found, but licenses were detected in source scan.

```
/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */
```

Found in path(s):

* /jpegsrvc-v9d-tar-gz/jpeg-9d/jdct.h

1.8 libjpeg 6a

1.8.1 Available under license :

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```
/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
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```

*
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/cdjpeg.c

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/*

* jdpostct.c

*

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*

* This file contains the decompression postprocessing controller.

* This controller manages the upsampling, color conversion, and color

* quantization/reduction steps; specifically, it controls the buffering

* between upsample/color conversion and color quantization/reduction.

*

* If no color quantization/reduction is required, then this module has no

* work to do, and it just hands off to the upsample/color conversion code.

* An integrated upsample/convert/quantize process would replace this module

* entirely.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jdpostct.c

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/*

* transupp.c

*

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*

* This file contains image transformation routines and other utility code

* used by the jpegtran sample application. These are NOT part of the core

* JPEG library. But we keep these routines separate from jpegtran.c to

* ease the task of maintaining jpegtran-like programs that have other user

* interfaces.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/transupp.c

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```
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 * jmemsys.h
 *
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 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */
```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jmemsys.h
```

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```
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 * jctrans.c
 *
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 *
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */
```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jctrans.c
```

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```
/*
 * jcmainct.c
 *
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```

- * This file is part of the Independent JPEG Group's software.
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- *
- * This file contains the main buffer controller for compression.
- * The main buffer lies between the pre-processor and the JPEG
- * compressor proper; it holds downsampled data in the JPEG colorspace.
- */

Found in path(s):

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```
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 *
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 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */
```

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/rdrle.c

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

```
/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
```

* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/rdtarga.c

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

/*

* jutils.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2009-2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains tables and miscellaneous utility routines needed

* for both compression and decompression.

* Note we prefix all global names with "j" to minimize conflicts with

* a surrounding application.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jutils.c

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

/*

* jcmaster.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2003-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains master control logic for the JPEG compressor.

* These routines are concerned with parameter validation, initial setup,

* and inter-pass control (determining the number of passes and the work

* to be done in each pass).

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jcmaster.c

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

```
/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */
```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jddctmgr.c
```

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

```
/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modification developed 2003-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
 * The primary algorithm described there uses 11 multiplies
 * and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
```

- * scaled fixed-point arithmetic, with a minimal number of shifts.
- *
- * We also provide FDCT routines with various input sample block sizes for
- * direct resolution reduction or enlargement and for direct resolving the
- * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
- * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
- *
- * For N<8 we fill the remaining block coefficients with zero.
- * For N>8 we apply a partial N-point FDCT on the input samples, computing
- * just the lower 8 frequency coefficients and discarding the rest.
- *
- * We must scale the output coefficients of the N-point FDCT appropriately
- * to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
- * is folded into the constant multipliers
- (pass 2) and/or final/initial
- * shifting.
- *
- * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
- * since there would be too many additional constants to pre-calculate.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jfdctint.c

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

/*

- * jdatasrc.c

*

- * Copyright (C) 1994-1996, Thomas G. Lane.

- * Modified 2009-2015 by Guido Vollbeding.

- * This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.

*

- * This file contains decompression data source routines for the case of

- * reading JPEG data from memory or from a file (or any stdio stream).

- * While these routines are sufficient for most applications,

- * some will want to use a different source manager.

- * IMPORTANT: we assume that fread() will correctly transcribe an array of

- * JOCTETs from 8-bit-wide elements on external storage. If char is wider

- * than 8 bits on your machine, you may need to do some tweaking.

*/

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdatasrc.c

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

/*

- * jdsample.c


```

*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2002-2015 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
* Digital Image Warping, George Wolberg, 1990.
* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jdsample.c
```

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

```

/*
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jcomapi.c
```

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

```

/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be

```

- * needed in either the normal full-decompression case or the
- * transcoding-only case.
- *
- * Most of the routines intended to be called directly by an application
- * are in this file or in jdapistd.c. But also see jcomapi.c for routines
- * shared by compression and decompression, and jdtrans.c for the transcoding
- * case.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdapimin.c

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

```
/*
 * jinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuft.c, and jdarith.c.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdinput.c

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

```
/*
 * jdhuft.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2006-2016 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */
```

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jdhuff.c

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

/*

* jidctint.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modification developed 2002-2016 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a slow-but-accurate integer implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they are much more

* complex and seem not to be any faster when reduced to code.

*

* This implementation is based on an algorithm described in

* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

* Algorithms with 11 Multiplications",

Proc. Int'l. Conf. on Acoustics,

* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

* The primary algorithm described there uses 11 multiplies and 29 adds.

* We use their alternate method with 12 multiplies and 32 adds.

* The advantage of this method is that no data path contains more than one

* multiplication; this allows a very simple and accurate implementation in

* scaled fixed-point arithmetic, with a minimal number of shifts.

*

* We also provide IDCT routines with various output sample block sizes for

* direct resolution reduction or enlargement and for direct resolving the

* common 2x1 and 1x2 subsampling cases without additional resampling: NxN

* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.

*

* For N<8 we simply take the corresponding low-frequency coefficients of

* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block

* to yield the downsampled outputs.

* This can be seen as direct low-pass downsampling

from the DCT domain

* point of view rather than the usual spatial domain point of view,

* yielding significant computational savings and results at least

* as good as common bilinear (averaging) spatial downsampling.

*

* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as

- * lower frequencies and higher frequencies assumed to be zero.
- * It turns out that the computational effort is similar to the 8x8 IDCT
- * regarding the output size.
- * Furthermore, the scaling and descaling is the same for all IDCT sizes.
- *
- * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
- * since there would be too many additional constants to pre-calculate.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jidctint.c

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

```
/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 1997-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jerror.h

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

```
/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */
```

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jmemname.c

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

/*

* jmemmgr.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2011-2012 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the JPEG system-independent memory management

* routines. This code is usable across a wide variety of machines; most

* of the system dependencies have been isolated in a separate file.

* The major functions provided here are:

* * pool-based allocation and freeing of memory;

* * policy decisions about how to divide available memory among the
* virtual arrays;

* * control logic for swapping virtual arrays between main memory and
* backing storage.

* The separate system-dependent file provides the actual backing-storage

* access code, and it contains the policy decision about how much total

* main memory to use.

* This file is

system-dependent in the sense that some of its functions

* are unnecessary in some systems. For example, if there is enough virtual

* memory so that backing storage will never be used, much of the virtual

* array control logic could be removed. (Of course, if you have that much

* memory then you shouldn't care about a little bit of unused code...)

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jmemmgr.c

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

/*

* wrtarga.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in Targa format.

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/wrtarga.c

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

/*

* wrppm.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2009-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in PPM/PGM format.

* The extended 2-byte-per-sample raw PPM/PGM formats are supported.

* The PBMPLUS library is NOT required to compile this software

* (but it is highly useful as a set of PPM image manipulation programs).

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

* an ordinary stdio stream.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/wrppm.c

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

/*

* wrgif.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 2015-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write output images in GIF format.

*

* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *

* this code has been modified to output "uncompressed GIF" files. *

* There is no trace of the LZW algorithm in this file. *

*

* These routines may need modification for non-Unix environments or

* specialized applications. As they stand, they assume output to

```

* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPLUS
distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCOD by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/wrgif.c
```

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

```

/*
* jquant2.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jquant2.c
```

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

IJG JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

=====

Include files:

jpeglib.h JPEG library's exported data and function declarations.

jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.

jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.

jerror.h Declares JPEG library's error and trace message codes.

jinclude.h Central include file used by all IJG .c files to reference system include files.

jpegint.h JPEG library's internal data structures.

jdct.h Private declarations for forward & reverse DCT subsystems.

jmemsys.h Private declarations for memory management subsystem.

jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapi.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapi.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jcparam.c Compression parameter setting helper routines.
jctrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jcmainct.c Main buffer controller (preprocessor => JPEG compressor).
jcprepct.c Preprocessor buffer controller.
jccoefct.c Buffer controller for DCT coefficient buffer.
jccolor.c Color space conversion.
jcsample.c Downsampling.
jcdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jchuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jcmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jdinput.c Input controller: controls input processing modules.
jdmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jdcoefct.c Buffer controller for DCT coefficient buffer.
jdpostct.c Postprocessor buffer controller.
jdmarker.c JPEG marker reading.
jdchuff.c Huffman entropy decoding.
jdarith.c Arithmetic entropy decoding.
jddctmgr.c IDCT manager (IDCT implementation selection & control).
jddctint.c Inverse DCT using slow-but-accurate integer method.
jddctfst.c Inverse DCT using faster, less accurate integer method.

jidctflt.c Inverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jdcolor.c Color space conversion.
jdmerge.c Merged upsampling/color conversion (faster, lower quality).
jquant1.c One-pass color quantization using a fixed-spacing colormap.
jquant2.c Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c Standard error handling routines (application replaceable).
jmemmgr.c System-independent (more or less) memory management code.
jutils.c Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN
=====

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional

error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdcolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches.
Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rdppm.c PPM/PGM file input.
rdrlc.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrrlc.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPGCOM/WRJPGCOM

=====

C source
code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

=====

Documentation (see README for a guide to the documentation files):

README Master documentation file.

*.txt Other documentation files.

*.1 Documentation in Unix man page format.

change.log Version-to-version change highlights.

example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.

configure.ac Source file for use with Autoconf to generate configure.

ltmain.sh Support scripts for configure (from GNU libtool).

config.guess

config.sub

depcomp

missing

ar-lib

compile

install-sh Install shell script for those Unix systems lacking one.

Makefile.in Makefile input for configure.

Makefile.am Source file

for use with Automake to generate Makefile.in.

ckconfig.c Program to generate jconfig.h on non-Unix systems.

jconfig.txt Template for making jconfig.h by hand.

mak*. * Sample makefiles for particular systems.

jconfig.* Sample jconfig.h for particular systems.

libjpeg.map Script to generate shared library with versioned symbols.

libjpeg.pc.in libjpeg.pc pkg-config file input for configure.

aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*. * Source and comparison files for confidence test.

These are binary image files, NOT text files.

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/filelist.txt

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

/*

* jerror.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2012-2015 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains simple error-reporting and trace-message routines.

- * These are suitable for Unix-like systems and others where writing to
- * stderr is the right thing to do. Many applications will want to replace
- * some or all of these routines.
- *
- * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
- * you get a Windows-specific hack to display error messages in a dialog box.
- * It ain't much, but it beats dropping error messages into the bit bucket,
- * which is what happens to output to stderr under most Windows C compilers.
- *
- * These routines are used by both the compression and decompression code.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jerror.c

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

```
/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdatadst.c

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

```
/*
 * ckconfig.c
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/ckconfig.c

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

```
/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */
```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jmemnobs.c
```

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

```
/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2015-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm
 * is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
```

- * simple scalings of the final outputs. These multiplies can then be
- * folded into the multiplications or divisions by the JPEG quantization
- * table entries. The AA&N method leaves only 5 multiplies and 29 adds
- * to be done in the DCT itself.
- * The primary disadvantage of this method is that with fixed-point math,
- * accuracy is lost due to imprecise representation of the scaled
- * quantization values. The smaller the quantization table entry, the less
- * precise the scaled value, so this implementation does worse with high-
- * quality-setting files than with low-quality ones.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jidctfst.c

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

/*

- * wrjpgcom.c

*

- * Copyright (C) 1994-1997, Thomas G. Lane.

- * Modified 2015-2017 by Guido Vollbeding.

- * This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.

*

- * This file contains a very simple stand-alone application that inserts

- * user-supplied text as a COM (comment) marker in a JFIF file.

- * This may be useful as an example of the minimum logic needed to parse

- * JPEG markers.

*/

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/wrjpgcom.c

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

/*

- * cdjpeg.h

*

- * Copyright (C) 1994-1997, Thomas G. Lane.

- * This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.

*

- * This file contains common declarations for the sample applications

- * cjpeg and djpeg. It is NOT used by the core JPEG library.

*/

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/cdjpeg.h

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

```

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 * (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jcarith.c
```

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

```

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 *
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 *
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less

```


* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jfdctfst.c

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

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jmemdosa.asm

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

/*

* transupp.h

*

* Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains declarations for image transformation routines and

* other utility code used by the jpegtran sample application. These are

* NOT part of the core JPEG library. But we keep these routines separate

* from jpegtran.c to ease the task of maintaining jpegtran-like programs

* that have other user interfaces.

*

* NOTE: all the routines declared here have very specific requirements

* about when they are to be executed during the reading and writing of the

* source and destination files. See the comments in transupp.c, or see

* jpegtran.c for an example of correct usage.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/transupp.h

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

/*

* jcmarker.c

*

* Copyright (C) 1991-1998, Thomas G. Lane.

* Modified 2003-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains routines to write JPEG datastream markers.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jcmarker.c

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

/*

* jcapimin.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2003-2010 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.

*

* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jcapimin.c

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

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2017, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code.

You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.

Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them). Read further if you run into snags or want to customize
the code for your system.

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Before you start
Configuring the software:
 using the automatic "configure" script
 using one of the supplied jconfig and makefile files
 by hand
Building the software
Testing the software
Installing the software
Optional stuff
Optimization
Hints for specific systems

BEFORE YOU START

=====

Before installing the software you must unpack the distributed source code.
Since you are reading this file, you have probably already succeeded in this
task. However, there is a potential for error if you needed
to convert the
files to the local standard text file format (for example, if you are on
MS-DOS you may have converted LF end-of-line to CR/LF). You must apply
such conversion to all the files EXCEPT those whose names begin with "test".
The test files contain binary data; if you change them in any way then the
self-test will give bad results.

Please check the last section of this file to see if there are hints for the
specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

=====

To configure the IJG code for your system, you need to create two files:

* jconfig.h: contains values for system-dependent #define symbols.

* Makefile: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:

* On a Unix system, you can just run the "configure" script.

* We provide sample jconfig

files and makefiles for popular machines;

if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.

* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

`./configure`

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type
`sh configure`

instead to prevent csh from trying to execute configure itself.

Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

*

Configure will build both static and shared libraries, if possible.

If you want to build libjpeg only as a static library, say

`./configure --disable-shared`

If you want to build libjpeg only as a shared library, say

`./configure --disable-static`

Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.

To force a particular compiler to be selected, use the CC option, for example

`./configure CC='cc'`

The same method can be used to include any unusual compiler switches.

For example, on HP-UX you probably want to say

`./configure CC='cc -Aa'`

to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.

You can override this by saying, for example,
./configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig
file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows, MS Visual C++
makefile.vs jconfig.vc Windows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vs jconfig.vc Windows, Visual Studio 2017 (v15)
make*.v15
makefile.b32 jconfig.vc Windows, Borland C++ 32-bit (bcc32)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or

whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

- makefile.ansi: if your C compiler supports function prototypes
- makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style

These programs can use a Unix-like command line style which supports redirection and piping, like this:

```
cjpeg inputfile >outputfile
```

```
cjpeg <inputfile >outputfile
```

```
source program | cjpeg >outputfile
```

The simpler "two file" command line style is just

```
cjpeg inputfile outputfile
```

You may prefer the two-file style, particularly if you don't have pipes.

You **MUST** use two-file style on any system that doesn't cope well with binary data

fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard `fopen()` library routine or a Microsoft-compatible `setmode()` routine, you can safely use the Unix command line style, by defining `USE_FOPEN` or `USE_SETMODE` respectively.)

To use the two-file style, make `jconfig.h` say `"#define TWO_FILE_COMMANDLINE"`.

Selecting a memory manager

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

- * `jmemansi.c` This version uses the ANSI-standard library routine `tmpfile()`, which not all non-ANSI systems have. On some systems `tmpfile()` may put the temporary file in a non-optimal location; if you don't like what it does, use `jmemname.c`.

- * `jmemname.c` This version creates named temporary files. For anything except a Unix machine, you'll need to configure the `select_file_name()` routine appropriately; see the comments near the head of `jmemname.c`. If you use this version, define `NEED_SIGNAL_CATCHER` in `jconfig.h` to make sure the temp files are removed if the program is aborted.

* `jmemnobs.c` (That stands for No Backing Store :-).) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* `jmemdos.c` This should be used with most 16-bit MS-DOS compilers.

See the system-specific notes about MS-DOS for more info.

IMPORTANT: if you use this, define `USE_MSDOS_MEMMGR` in `jconfig.h`, and include the assembly file `jmemdosa.asm` in the programs. The supplied makefiles and `jconfig` files for 16-bit MS-DOS compilers already do both.

* `jmemmac.c` Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the `SYSDEPMEM` variable in your makefile to equal the corresponding object file name (for example, `jmemansi.o` or `jmemansi.obj` for `jmemansi.c`).

If you have plenty of (real or virtual) main memory, just use `jmemnobs.c`.

"Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.

If yours doesn't, try `jmemansi.c` first. If that doesn't compile, you'll have to use `jmemname.c`; be sure to adjust `select_file_name()` for local conditions. You may also need to change `unlink()` to `remove()` in `close_backing_store()`.

Except with `jmemnobs.c` or `jmemmac.c`, you need to adjust the `DEFAULT_MAX_MEM` setting to a reasonable value for your system (either by adding a `#define` for `DEFAULT_MAX_MEM` to `jconfig.h`, or by adding a `-D` switch to the Makefile).

This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory

needs for `cjpeg` or `djpeg` are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set `DEFAULT_MAX_MEM` to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by `jmemdos.c`.)

BUILDING THE SOFTWARE

=====

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting `"#define INCOMPLETE_TYPES_BROKEN"` in `jconfig.h`.

If

you have trouble with missing system include files or inclusion of the wrong ones, read `jinclude.h`. This shouldn't happen if you used `configure` or `ckconfig.c` to set up `jconfig.h`.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a `getenv()` library routine, define `NO_GETENV`.

Also see the system-specific hints, below.

TESTING THE SOFTWARE

=====

As a quick test of functionality we've included a small sample image in several forms:

`testorig.jpg` Starting point for the djpeg tests.

`testimg.ppm` The output of djpeg `testorig.jpg`

`testimg.bmp` The output of djpeg `-bmp -colors 256 testorig.jpg`

`testimg.jpg` The output of cjpeg `testimg.ppm`

`testprog.jpg` Progressive-mode equivalent of `testorig.jpg`.

`testimgp.jpg` The output of cjpeg `-progressive -optimize testimg.ppm`

(The first- and second-generation `.jpg` files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the `testimg*` files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run `djpeg` and `cjpeg` by hand and compare the output files to `testimg*` with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce `MAX_ALLOC_CHUNK` to a value that fits in type `size_t`. Try adding `"#define MAX_ALLOC_CHUNK 65520L"` to `jconfig.h`. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining `ALIGN_TYPE`

as long should take care of that one.

If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED.

Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE:

this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

=====

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say
make install
to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying
make -n install
to see
where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page

filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files `jpeglib.h` `jerror.h` `jconfig.h` `jmorecfg.h` into your include-file directory, and put the library file `libjpeg.a` (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say

```
make install-lib
```

OPTIONAL STUFF

=====

Progress monitor:

If you like, you can `#define PROGRESS_REPORT` (in `jconfig.h`) to enable display of percent-done progress reports. The routine provided in `cdjpeg.c` merely prints percentages to `stderr`, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. `#define RLE_SUPPORTED` in `jconfig.h`.
2. Add a `-I` option to `CFLAGS` in the Makefile for the directory containing the URT `.h` files (typically the "include" subdirectory of the URT distribution).
3. Add `-L... -lrle` to `LDLIBS` in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In `jmorecfg.h`, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle deeper than 8-bit data

and won't even compile. (The PPM code does work, as explained below.

The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)

3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:

The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional

functions can be removed at compile time. See the `xxx_SUPPORTED` #defines in `jconfig.h` and `jmorecfg.h`. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine `JDCT_DEFAULT` or `JDCT_FASTEST` to a supported method, by adding a #define in `jconfig.h`.)

OPTIMIZATION

=====

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a `16x16=>32` bit multiply instruction is faster than a full `32x32=>32` bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the `MULTIPLYxxx` macro definitions in `jdct.h`. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining `SHORTxSHORT_32` is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing `cjpeg` on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific `jconfig` files already contain #define switches to select appropriate `MULTIPLYxxx` definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add `"#define JDCT_DEFAULT JDCT_FLOAT"` to `jconfig.h`. Even if you don't change

the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS

=====

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)

After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn

LDLIBS=C:o.Stubs

SYSDEPMEM=jmemansi.o

LN=Link

AR=LibFile -c -o

Also add a new line '.c.o; \$(cc) \$< \$(cflags) -c -o \$@'. Remove the

lines '\$(RM) libjpeg.o' and '\$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:".

Atari ST/STE/TT:

Copy

the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcftlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcftlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file

of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate
as to be running JPEG on a Cray YMP, there is a
compiler bug in old versions of Cray's Standard C (prior to 3.1). If you
still have an old compiler, you'll need to insert a line reading
"#pragma novector" just before the loop
for (i = 1; i <= (int) htbl->bits[l]; i++)
huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdchuff.c).
[This bug may or may not still occur with the current IJG code, but it's
probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler,
you should run the compiler in ANSI mode. If using the configure script,
say
./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler
delivered with a minimum HP-UX system, then you must use makefile.unix
(and do NOT add -Aa); or just run configure without
the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior
to A.08.07. If you get complaints about "not a typedef name", you'll have to
use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to

provide a Unix-style command line interface. You can use this interface on the Mac by means of the `ccommand()` library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of `cjpeg/djpeg` you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.

The

CodeWarrior source code is available from <http://www.pobox.com/~jsam>.

2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file `/info-mac/dev/src/jpeg-convert-c.hqx`.

`jmemmac.c` is the recommended memory manager back end for Macintosh. It uses `NewPtr/DisposePtr` instead of `malloc/free`, and has a Mac-specific implementation of `jpeg_mem_available()`. It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in `jmemmac.c` if you need to run it on System 6.) NOTE that `USE_MAC_MEMMGR` must be defined in `jconfig.h` to use `jmemmac.c`.

You can also use `jmemnobs.c`, if you don't care about handling images larger than available memory. If you use any memory manager back end other than `jmemmac.c`, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of `malloc/free`. (For instance, `free()` may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because `jmemmgr.c` already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining `USE_CCOMMAND`. You'll also need to define `TWO_FILE_COMMANDLINE` to avoid `stdin/stdout`. This means that when using the `cjpeg/djpeg` programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps `USE_FDOPEN` or `USE_SETMODE` would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float.

`jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `"#define ALIGN_TYPE long"` to `jconfig.h` to eliminate the complaint.

The supplied configuration file `jconfig.mac` can be used for your `jconfig.h`; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script `makeproj.mac` to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define `USE_CCOMMAND` in `jconfig.h` so that the `ccommand()` routine is called. You must also define `TWO_FILE_COMMANDLINE` because `stdin/stdout` don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. `jmemmgr.c` won't like this: it wants `sizeof(ALIGN_TYPE)` to be a power of 2. Add `#define ALIGN_TYPE long` to `jconfig.h` to eliminate the complaint.

`jconfig.mac` should work as a `jconfig.h` configuration file for Think C, but the `makeproj.mac` AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's `cc` version 1.31 has a rather nasty optimization bug. Don't use `-O` if you have that compiler version.

(Use `"cc -V"` to check the version.)

Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to

compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible.

It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you

are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define `NEED_FAR_POINTERS`, and do NOT use `jmemdos.c`. Use `jmemnobs.c` if the environment supplies adequate virtual memory, otherwise use `jmemansi.c` or `jmemname.c`.

You'll still need to be careful about binary I/O through `stdin/stdout`. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine `TWO_FILE_COMMANDLINE`. `jconfig.bcc` already includes `#define USE_SETMODE` to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

`makefile.mc6` works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine `TWO_FILE_COMMANDLINE`. `jconfig.mc6` already includes `#define USE_SETMODE` to make this work. (fdopen does not work correctly.)

Note that this `makefile` assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads `"$(RFILE) : makefile"`. Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro `TRACEMS8` (defined in `jerror.h`). If this happens to you, the easiest solution is to change `TRACEMS8` to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with `djpeg -debug -debug`, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all

sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifdef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifdef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifdef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
```

(This is already in jconfig.vc, by the way.)

windef.h contains the declarations

```
#define far
#define FAR far
```

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.

(Something like this is already in jmorecfg.h, by the way.)

When using

the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;

2. in event of a fatal error, it exits by calling `exit()`.

A simple stopgap solution for problem 1 is to replace the line

```
fprintf(stderr, "%s\n", buffer);
```

(in `output_message` in `jerror.c`) with

```
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
```

It's highly recommended that you at least do that much, since otherwise

error messages will disappear into nowhere. (Beginning with IJG v6b, this

code is already present in `jerror.c`; just define `USE_WINDOWS_MESSAGEBOX` in `jconfig.h` to enable it.)

The proper solution for problem 2 is to return control to your calling

application after a library error. This can be done with the `setjmp/longjmp`

technique discussed in `libjpeg.txt` and illustrated in `example.c`. (NOTE:

some

older Windows C compilers provide versions of `setjmp/longjmp` that

don't actually work under Windows. You may need to use the Windows system functions `Catch` and `Throw` instead.)

The recommended memory manager under Windows is `jmemnobs.c`; in other words,

let Windows do any virtual memory management needed. You should NOT use

`jmemdos.c` nor `jmemdosa.asm` under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;

for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory

models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into `jconfig.h` to limit allocation chunks to 64Kb. (Without that, you'd

have to use huge memory model, which slows things down unnecessarily.)

`jmemnobs.c` works without modification in large or flat memory models, but to use medium model, you need to modify its `jpeg_get_large` and `jpeg_free_large` routines to

allocate far memory. In any case, you might like to replace

its calls to `malloc` and `free` with direct calls on Windows memory allocation functions.

You may also want to modify `jdatasrc.c` and `jdatadst.c` to use Windows file

operations rather than `fread/fwrite`. This is only necessary if your C

compiler doesn't provide a competent implementation of C `stdio` functions.

You might want to tweak the `RGB_xxx` macros in `jmorecfg.h` so that the library

will accept or deliver color pixels in BGR sample order, not RGB; BGR order

is usually more convenient under Windows. Note that this change will break

the sample applications `cjpeg/djpeg`, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably

straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So `jdatasrc.c` and `jdatadst.c` don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make `jdatasrc.c/jdatadst.c` part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros `GLOBAL()` and `EXTERN()` to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify `METHODDEF()` and `JMETHOD()` to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in `jmorecfg.h`. Typical definitions for a 16-bit DLL are:

```
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist)
\
type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the `GLOBAL` routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided `jconfig.bcc` should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define `NEED_FAR_POINTERS` and `MAX_ALLOC_CHUNK`). Beware that `makefile.bcc` will need

alteration if you want to use it for Windows --- in particular, you should use `jmemnobs.c` not `jmemdos.c` under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile `jdmerge.c` in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable `range_limit` in `h2v1_merged_upsample()`, at the head of the block that handles odd image width (about line 268 in `v6_jdmerge.c`):

```
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
```

Pretty bizarre, especially since the very similar routine `h2v2_merged_upsample` doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:

- Ot -Og
- Ot -Op
- Ot -Om

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

`jconfig.vc` should work OK with any Microsoft compiler for a 32-bit memory model. `makefile.vc` is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds `extern "C"` to `jpeglib.h`. This avoids the need to put `extern "C" { ... }` around `#include "jpeglib.h"` in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the `*.c` files to `*.cpp` (and adjusting the makefile to match). In this case you also need to define the symbol `DONT_USE_EXTERN_C` in the configuration to prevent `jpeglib.h` from using `extern "C"`.

Microsoft Windows,
Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the

library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the command prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-vc6
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
(If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
NMAKE
/f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Visual Studio 2017 (v15):

We include makefiles that should work as project files in Visual Studio 2017 (v15) or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Open the Developer Command Prompt, change to the main directory and execute the command line
NMAKE /f makefile.vs setup-v15
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
 - a) If you are using Visual Studio more recent than 2017 (v15), you'll probably get a message saying that the project files are being updated.
 - b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
NMAKE /f makefile.vs test-build
5. Move the application .exe files from `app`\Release to an

appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in `makefile.bcc`.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.

If you are using `configure`, you can do this by saying

```
./configure RANLIB='ar -ts'
```

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler

option "-mips2"

reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in `jconfig.h`.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/install.txt

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

/*

* jquant1.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* Modified 2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains 1-pass color quantization (color mapping) routines.
- * These routines provide mapping to a fixed color map using equally spaced
- * color values. Optional Floyd-Steinberg or ordered dithering is available.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jquant1.c

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

```
/*
 * jcrepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jcrepct.c

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

```
/*
 * jcdctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jcdctmgr.c

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

```
/*
 * jcpam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */
```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jcpam.c
```

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

The Independent JPEG Group's JPEG software

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README for release 9c of 14-Jan-2018

=====

This distribution contains the ninth 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.

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

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16).

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.

ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt
Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some 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 encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

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.

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.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

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In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2)

If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

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, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), 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.

REFERENCES

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We 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 PDF file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/Wallace.JPEG.pdf>. 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 currently available 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).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG 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.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension

which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.

IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <http://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <http://www.w3.org/Graphics/JPEG/jfif3.pdf>.

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 <http://www.ijg.org/files/>. 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.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v9c.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr9c.zip>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

=====

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, and Ulf-Dietrich Braumann for support and public relations.

FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements

for the maintenance of the original JPEG specification.

Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code.

The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates

basic C programming properties.

We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.

Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and

intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement. IJG expresses that which already was.

The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

=====

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/README

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

/*

* jcsample.c

*

* Copyright (C) 1991-1996, Thomas G. Lane.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains downsampling routines.

*

* Downsampling input data is counted in "row groups". A row group

* is defined to be max_v_samp_factor pixel rows of each component,

- * from which the downsampler produces v_samp_factor sample rows.
- * A single row group is processed in each call to the downsampler module.
- *
- * The downsampler is responsible for edge-expansion of its output data
- * to fill an integral number of DCT blocks horizontally. The source buffer
- * may be modified if it is helpful for this purpose (the source buffer is
- * allocated wide enough to correspond to the desired output width).
- * The caller (the prep controller) is responsible for vertical padding.
- *
- * The downsampler may request
- "context rows" by setting need_context_rows
- * during startup. In this case, the input arrays will contain at least
- * one row group's worth of pixels above and below the passed-in data;
- * the caller will create dummy rows at image top and bottom by replicating
- * the first or last real pixel row.
- *
- * An excellent reference for image resampling is
- * Digital Image Warping, George Wolberg, 1990.
- * Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
- *
- * The downsampling algorithm used here is a simple average of the source
- * pixels covered by the output pixel. The hi-falutin sampling literature
- * refers to this as a "box filter". In general the characteristics of a box
- * filter are not very good, but for the specific cases we normally use (1:1
- * and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
- * nearly so bad. If you intend to use other sampling ratios, you'd be well
- * advised to improve this code.
- *
- * A simple input-smoothing
- capability is provided. This is mainly intended
- * for cleaning up color-dithered GIF input files (if you find it inadequate,
- * we suggest using an external filtering program such as pnmconvol). When
- * enabled, each input pixel P is replaced by a weighted sum of itself and its
- * eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
- * where SF = (smoothing_factor / 1024).
- * Currently, smoothing is only supported for 2h2v sampling factors.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jcsample.c

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

/*

- * jdmarker.c

*

- * Copyright (C) 1991-1998, Thomas G. Lane.

- * Modified 2009-2013 by Guido Vollbeding.

- * This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains routines to decode JPEG datastream markers.
- * Most of the complexity arises from our desire to support input
- * suspension: if not all of the data for a marker is available,
- * we must exit back to the application. On resumption, we reprocess
- * the marker.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdmarker.c

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

- /*
- * jchuff.c
- *
- * Copyright (C) 1991-1997, Thomas G. Lane.
- * Modified 2006-2013 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains Huffman entropy encoding routines.
- * Both sequential and progressive modes are supported in this single module.
- *
- * Much of the complexity here has to do with supporting output suspension.
- * If the data destination module demands suspension, we want to be able to
- * back up to the start of the current MCU. To do this, we copy state
- * variables into local working storage, and update them back to the
- * permanent JPEG objects only upon successful completion of an MCU.
- *
- * We do not support output suspension for the progressive JPEG mode, since
- * the library currently does not allow multiple-scan files to be written
- * with output suspension.
- */

Found

in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jchuff.c

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

- /*
- * jcinit.c
- *
- * Copyright (C) 1991-1997, Thomas G. Lane.
- * Modified 2003-2017 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *

- * This file contains initialization logic for the JPEG compressor.
- * This routine is in charge of selecting the modules to be executed and
- * making an initialization call to each one.
- *
- * Logically, this code belongs in jcmaster.c. It's split out because
- * linking this routine implies linking the entire compression library.
- * For a transcoding-only application, we want to be able to use jcmaster.c
- * without linking in the whole library.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jcinit.c

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

```
/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is
indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/rdbmp.c

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

```
/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009-2015 by Guido Vollbeding.
```

- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains a command-line user interface for the JPEG decompressor.
- * It should work on any system with Unix- or MS-DOS-style command lines.
- *
- * Two different command line styles are permitted, depending on the
- * compile-time switch TWO_FILE_COMMANDLINE:
- * djpeg [options] inputfile outputfile
- * djpeg [options] [inputfile]
- * In the second style, output is always to standard output, which you'd
- * normally redirect to a file or pipe to some other program. Input is
- * either from a named file or from standard input (typically redirected).
- * The second style is convenient on Unix but is unhelpful on systems that
- * don't support pipes. Also, you MUST use the
- first style if your system
- * doesn't do binary I/O to stdin/stdout.
- * To simplify script writing, the "-outfile" switch is provided. The syntax
- * djpeg [options] -outfile outputfile inputfile
- * works regardless of which command line style is used.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/djpeg.c

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

```
/*
 * jpeglib.h
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jpeglib.h

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

```
/*
 * jpegtran.c
 *
 * Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
```


- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains a command-line user interface for JPEG transcoding.
- * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
- * lossless transcoding between different JPEG file formats. It also
- * provides some lossless and sort-of-lossless transformations of JPEG data.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jpegtran.c

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

```
/*
 * jversion.h
 *
 * Copyright (C) 1991-2018, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jversion.h

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

```
/*
 * jdct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdct.h

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

```
/*
 * jdarith.c
 *
```

- * Developed 1997-2015 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains portable arithmetic entropy decoding routines for JPEG
- * (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
- *
- * Both sequential and progressive modes are supported in this single module.
- *
- * Suspension is not currently supported in this module.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdarith.c

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

```
/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
 * Also, this code will NOT work if struct fields are aligned on greater than
 * 2-byte boundaries.
 *
 * Based on code contributed by Ge' Weijers.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jmemdos.c

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

```
/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * Modified 2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
```

```

*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jinclude.h
```

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

```

/*
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jccolor.c
```

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

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific

terminology follows the JPEG standard:

A "component" means a color channel, e.g., Red or Luminance.

A "sample" is a single component value (i.e., one number in the image data).

A "coefficient" is a frequency coefficient (a DCT transform output number).

A "block" is an array of samples or coefficients.

An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

- * A subroutine library for JPEG compression and decompression.

- * cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. The library does not support the hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These

functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:

- * Color space conversion (e.g., RGB to YCbCr).
- * Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- * MCU assembly, DCT, quantization.
- * Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to `fwrite()`, but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- * Entropy decoding (sequential or progressive, Huffman or arithmetic).
- * Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- * Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- * Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [currently it does not].
- * Optional color quantization (e.g., reduction to 256 colors).
- * Optional

color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined

we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields.

(For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that

only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the

control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup

initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each

buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
      |           |           |
      ----- controller -----
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module.

(Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```

                                |-- Colospace conversion
        |-- Preprocessing controller --|
        |                                |-- Downsampling
Main controller --|
        |                                |-- Forward DCT, quantize
        |-- Coefficient controller --|
                                |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colospace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to

separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as V_{max} pixel rows of each component before downsampling, and V_k sample rows afterwards (remember V_k differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of `block_size` samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of `block_size` rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for `RSTn`, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied

with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

- * Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).
- * Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.
- * Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```

                                |-- Entropy decoding
        |-- Coefficient controller --|
        |                               |-- Dequantize, Inverse DCT
Main controller --|
        |                               |-- Upsampling
        |-- Postprocessing controller --| |-- Colorspace conversion
                                |-- Color quantization
                                |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

- * Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary

task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

- * Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.
- * Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.
- * Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.
- * Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.
- * Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.
- * Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive

JPEG files, the

decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be ≥ 0 . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- * Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- * Indexing doesn't require multiplication; this is a performance win on many machines.
- * Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- * The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together.

This simplifies coding of modules that work on each component independently,

because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which

is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme.

This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order,

and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state,

thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does **not** cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master

record is destroyed.

The memory manager does not provide explicit deallocation of objects.

Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and

it speeds up operations whenever malloc/free are slow (as they often are).

The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- * JPOOL_PERMANENT lasts until master record is destroyed

- * JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.

2. "Large" objects. These may

require tens to hundreds of K depending on

image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:

- * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.

- * Pool allocation heuristics may differ for large and small objects.

Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create

these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by

the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_xxx` routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. `realize_virt_arrays` will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoeft.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not

support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end.

The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines; else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its

own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height

(this would be useful for a fax-like scanner's output, for instance).

In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files.

(One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan.

This would solve the space problems if the overestimate wasn't too great.

However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/structure.txt

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

```
/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2003-2015 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to process some of cjpeg's more complicated
 * command-line switches. Switches processed here are:
 * -qtables file Read quantization tables from text file
 * -scans file Read scan script from text file
 * -quality N[,N,...] Set quality ratings
 * -qslots N[,N,...] Set component quantization table selectors
 * -sample HxV[,HxV,...] Set component sampling factors
 */
```

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/rdswitch.c

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

```
/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2003-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
```


- * This file contains a floating-point implementation of the
- * forward DCT (Discrete Cosine Transform).
- *
- * This implementation should be more accurate than either of the integer
- * DCT implementations. However, it may not give the same results on all
- * machines because of differences in roundoff behavior. Speed will depend
- * on the hardware's floating point capacity.
- *
- * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
- * on each column. Direct algorithms are also available, but they are
- * much more complex and seem not to be any faster when reduced to code.
- *
- * This implementation is based on Arai, Agui, and Nakajima's algorithm for
- * scaled
- DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
- * Japanese, but the algorithm is described in the Pennebaker & Mitchell
- * JPEG textbook (see REFERENCES section in file README). The following code
- * is based directly on figure 4-8 in P&M.
- * While an 8-point DCT cannot be done in less than 11 multiplies, it is
- * possible to arrange the computation so that many of the multiplies are
- * simple scalings of the final outputs. These multiplies can then be
- * folded into the multiplications or divisions by the JPEG quantization
- * table entries. The AA&N method leaves only 5 multiplies and 29 adds
- * to be done in the DCT itself.
- * The primary disadvantage of this method is that with a fixed-point
- * implementation, accuracy is lost due to imprecise representation of the
- * scaled quantization values. However, that problem does not arise if
- * we use floating point arithmetic.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jfdctflt.c

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

/*

- * wrtle.c

*

- * Copyright (C) 1991-1996, Thomas G. Lane.

- * Modified 2017 by Guido Vollbeding.

- * This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.

*

- * This file contains routines to write output images in RLE format.

- * The Utah Raster Toolkit library is required (version 3.1 or later).

*

- * These routines may need modification for non-Unix environments or

- * specialized applications. As they stand, they assume output to

- * an ordinary stdio stream.

*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/wrrle.c

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

/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/* Does your compiler
support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.

```

* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h>
file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

```

```

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified
 * structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get "missing structure definition" warnings or errors while
 * compiling the JPEG code.
 */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
 */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE /* in case these macros already exist */
#define FALSE 0 /* values of boolean */
#endif
#ifndef TRUE
#define TRUE 1
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS
 * has been defined.
 */

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,

```

```

* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#define RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout
and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* jmemansi.c

```

```

*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

```

Found in path(s):

```

* /jpeg-9c-tar-gz/jpeg-9c/jmemansi.c

```

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

```

/*
* jdmerge.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
*
* R = Y      + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
*
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just
* once.
*
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCC => RGB color conversion only (YCbCr or BG_YCC).
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are

```

* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jdmerge.c

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

/*

* jaricom.c

*

* Developed 1997-2011 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains probability estimation tables for common use in

* arithmetic entropy encoding and decoding routines.

*

* This data represents Table D.3 in the JPEG spec (D.2 in the draft),

* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24

* in the JBIG spec, ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jaricom.c

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

/*

* jidctflt.c

*

* Copyright (C) 1994-1998, Thomas G. Lane.

* Modified 2010-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains a floating-point implementation of the

* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

* must also perform dequantization of the input coefficients.

*

* This implementation should be more accurate than either of the integer

* IDCT implementations. However, it may not give the same results on all

* machines because of differences in roundoff behavior. Speed will depend

* on the hardware's floating point capacity.

*

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

* on each row (or vice versa, but it's more convenient to emit a row at

* a time). Direct algorithms are also available, but they

are much more

- * complex and seem not to be any faster when reduced to code.
- *
- * This implementation is based on Arai, Agui, and Nakajima's algorithm for
- * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
- * Japanese, but the algorithm is described in the Pennebaker & Mitchell
- * JPEG textbook (see REFERENCES section in file README). The following code
- * is based directly on figure 4-8 in P&M.
- * While an 8-point DCT cannot be done in less than 11 multiplies, it is
- * possible to arrange the computation so that many of the multiplies are
- * simple scalings of the final outputs. These multiplies can then be
- * folded into the multiplications or divisions by the JPEG quantization
- * table entries. The AA&N method leaves only 5 multiplies and 29 adds
- * to be done in the DCT itself.
- * The primary disadvantage of this method is that with a fixed-point
- * implementation, accuracy is lost due to imprecise representation of the
- * scaled quantization values. However,
- that problem does not arise if
- * we use floating point arithmetic.
- */

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jidctflt.c

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

/*

* jdapistd.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2013 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains application interface code for the decompression half

* of the JPEG library. These are the "standard" API routines that are

* used in the normal full-decompression case. They are not used by a

* transcoding-only application. Note that if an application links in

* jpeg_start_decompress, it will end up linking in the entire decompressor.

* We thus must separate this file from jdapimin.c to avoid linking the

* whole decompression library into a transcoder.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jdapistd.c

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

/*

* jmemmac.c

*
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images
 * are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
 *
 * Note that jmemmac.c depends on two features of MacOS that were first
 * introduced in System 7: FindFolder and the FSSpec-based calls.
 * If your application uses jmemmac.c and is run under System 6 or earlier,
 * and the jpeg library decides it needs a temporary file, it will abort,
 * printing error messages about requiring System 7. (If no temporary files
 * are created, it will run fine.)
 *
 * If you want to use jmemmac.c in an application that might be used with
 * System 6 or earlier, then you should remove dependencies on FindFolder
 * and the FSSpec calls. You will need to replace FindFolder with some
 * other mechanism for finding a place to put temporary files, and you
 * should replace the FSSpec calls with their HFS equivalents:
 *
 * FSpDelete -> HDelete
 * FSpGetFInfo -> HGetFInfo
 * FSpCreate -> HCreate
 * FSpOpenDF -> HOpen
 * *** Note: not HOpenDF ***
 * FSMakeFSSpec -> (fill in spec by hand.)
 *
 * (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
 * which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
 * ages-old problem of names starting with a period.)
 *
 * Contributed by Sam Bushell (jsam@iagu.on.net) and

* Dan Gildor (gyld@in-touch.com).

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jmemmac.c

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

/*

* jdmainct.c

*

* Copyright (C) 1994-1996, Thomas G. Lane.

* Modified 2002-2016 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file contains the main buffer controller for decompression.

* The main buffer lies between the JPEG decompressor proper and the

* post-processor; it holds downsampled data in the JPEG colorspace.

*

* Note that this code is bypassed in raw-data mode, since the application

* supplies the equivalent of the main buffer in that case.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jdmainct.c

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

/*

* jpegint.h

*

* Copyright (C) 1991-1997, Thomas G. Lane.

* Modified 1997-2017 by Guido Vollbeding.

* This file is part of the Independent JPEG Group's software.

* For conditions of distribution and use, see the accompanying README file.

*

* This file provides common declarations for the various JPEG modules.

* These declarations are considered internal to the JPEG library; most

* applications using the library shouldn't need to include this file.

*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jpegint.h

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

/*

* jdcOLOR.c

*

* Copyright (C) 1991-1997, Thomas G. Lane.

- * Modified 2011-2017 by Guido Vollbeding.
- * This file is part of the Independent JPEG Group's software.
- * For conditions of distribution and use, see the accompanying README file.
- *
- * This file contains output colorspace conversion routines.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jdcolor.c

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

```
/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009-2017 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */
```

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/cderror.h

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

```
/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 *   GIF: the contents of the GIF's global colormap are used.
 *   PPM (either text or raw flavor): the entire file is read and
 *     each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
```

```

*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/rdcolmap.c
```

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

```

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jcapistd.c
```

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

```

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2003-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

```

```

*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jccoefct.c
```

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

```

/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jdmaster.c
```

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

```

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/rdjpgcom.c
```

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

```

/*
* wrbmp.c

```

```

*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2017 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/wrbmp.c
```

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

```

/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
*****
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,
* the ability to read GIF files has been removed from the IJG distribution.
* Sorry about that.
*****
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/rdgif.c
```

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

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see `jpeg/doc/cstyle.ms.tbl.Z`, or `cstyle.txt.Z` for those without `nroff/tbl`).

Block comments should be laid out thusly:

```
/*  
 * Block comments in this style.  
*/
```

We indent statements in K&R style, e.g.,

```
if (test) {  
    then-part;  
} else {  
    else-part;  
}
```

with two spaces per indentation

level. (This indentation convention is

handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants are similar but upper case (`MULTI_WORD_NAME`). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool '`ansi2knr.c`' (courtesy of Ghostscript). `ansi2knr` is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)  
function_name (int a, char
```

```

*b)
{
    code...
}

```

Note that each function definition must begin with `GLOBAL(type)`, `LOCAL(type)`, or `METHODDEF(type)`. These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

`ansi2knr` does not transform method declarations (function pointers in structs). We handle these with a macro `JMETHOD`, defined as

```

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif

```

which is used like this:

```

struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the `EXTERN` and `JPP` macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the `sizeof()` operator is defined to return `int`, yet `size_t` is defined as `long`. Needless to say, this is brain-damaged. Always use the `SIZEOF()` macro in place of `sizeof()`, so that the result is guaranteed to be of type `size_t`.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace

pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/coderules.txt

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

```
/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2003-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
```

- * normally redirect to a file or pipe to some other program. Input is
- * either from a named file or from standard input (typically redirected).
- * The second style is convenient on Unix but is unhelpful on systems that
- * don't support pipes. Also, you MUST use the
- first style if your system
- * doesn't do binary I/O to stdin/stdout.
- * To simplify script writing, the "-outfile" switch is provided. The syntax
- * cjpeg [options] -outfile outputfile inputfile
- * works regardless of which command line style is used.
- */

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/cjpeg.c

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

/*

- * jmorecfg.h

*

- * Copyright (C) 1991-1997, Thomas G. Lane.

- * Modified 1997-2013 by Guido Vollbeding.

- * This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.

*

- * This file contains additional configuration options that customize the

- * JPEG software for special applications or support machine-dependent

- * optimizations. Most users will not need to touch this file.

*/

Found in path(s):

- * /jpeg-9c-tar-gz/jpeg-9c/jmorecfg.h

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

/*

- * rdppm.c

*

- * Copyright (C) 1991-1997, Thomas G. Lane.

- * Modified 2009-2017 by Bill Allombert, Guido Vollbeding.

- * This file is part of the Independent JPEG Group's software.

- * For conditions of distribution and use, see the accompanying README file.

*

- * This file contains routines to read input images in PPM/PGM format.

- * The extended 2-byte-per-sample raw PPM/PGM formats are supported.

- * The PBMPLUS library is NOT required to compile this software

- * (but it is highly useful as a set of PPM image manipulation programs).

*

- * These routines may need modification for non-Unix environments or

- * specialized applications. As they stand, they assume input from

- * an ordinary stdio stream. They further assume that reading begins

```

* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions
of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/rdppm.c
```

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

```

/*
* jdcoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2002-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

```

Found in path(s):

```
* /jpeg-9c-tar-gz/jpeg-9c/jdcoefct.c
```

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

```

/*
* jdtrans.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* Modified 2000-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.

```

* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
*/

Found in path(s):

* /jpeg-9c-tar-gz/jpeg-9c/jdtrans.c

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

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library.

The sections on advanced features can be read if and when you need them.

OVERVIEW

=====

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library

provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions **not** provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- * Hierarchical storage
- * Lossless JPEG
- * DNL marker
- * Nonintegral subsampling ratios

We

support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

The rough outline of a JPEG compression operation is:

```
Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
    jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression
object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams,

as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize
a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
    jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object
```

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-

memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE

=====

Data formats

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a

time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by `BITS_IN_JSAMPLE` (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with `BITS_IN_JSAMPLE = 9` to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single `JSAMPLE` per pixel; its value is an index into a color map. The color map is represented as a 2-D `JSAMPARRAY` in which each row holds the values of one color component, that is, `colormap[i][j]` is the value of the *i*'th color component for pixel value (map index) *j*. Note that since the colormap indexes are stored in `JSAMPLE`s, the maximum number of colors is limited by the size of `JSAMPLE` (ie, at most 256 colors for an 8-bit JPEG library).

Compression details

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct `jpeg_compress_struct`". (It also has a bunch of subsidiary structures which are allocated via `malloc()`, but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from `malloc()`.

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct `jpeg_error_mgr`". If you are providing your own error handler, you'll typically want to embed the `jpeg_error_mgr` struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages

on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling `jpeg_start_compress()` and `jpeg_finish_compress()`.

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

`image_width` Width of image, in pixels
`image_height` Height of image, in pixels
`input_components` Number of color channels (samples per pixel)
`in_color_space` Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB

or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults()`; then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical

code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)

```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently.

Examples

of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.next_scanline < cinfo.image_height)"`.

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```

JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

```

jpeg_write_scanlines() returns the number of scanlines actually written.

This will normally be equal to the number

passed in, so you can usually

ignore the return value. It is different in just two cases:

- * If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- * If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary

total number of scanlines. If you wish to abort compression, call `jpeg_abort()` as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

8.

Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

- * If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

- * If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects.

This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`. (See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct `jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- * A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
- * Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case,

call `jpeg_destroy()` when you are done with the JPEG object, or call `jpeg_abort()` to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

`jpeg_read_header()` sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`. If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

```
output_width  image width and height, as scaled
output_height
```

out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
 jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that

`jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

7. `jpeg_finish_decompress(...)`;

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is **not** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temporary files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

=====

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`,

and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is `TRUE`, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility.

In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is `FALSE`, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)`

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

`int jpeg_quality_scaling
(int quality)`

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)`
Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
const unsigned int *basic_table,
int scale_factor, boolean force_baseline)`

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are

multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is TRUE).

CAUTION: prior to library version

6a, `jpeg_add_quant_table` expected

the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like `"#if JPEG_LIB_VERSION >= 61"` is the right test.

`jpeg_simple_progression (j_compress_ptr cinfo)`

Generates a default scan script for writing a progressive-JPEG file.

This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (`cinfo` fields) include:

boolean `arith_code`

If TRUE, use arithmetic coding.

If FALSE, use Huffman coding.

int `block_size`

Set DCT block size. All N from 1 to 16 are possible.

Default is 8 (baseline format).

Larger values produce higher compression,
smaller values produce higher quality.

An exact DCT stage is possible with 1 or 2.

With the default quality

of 75 and default Luminance `qtable`

the DCT+Quantization stage is lossless for value 1.

Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the `block_size` parameter for compression works with version 8c and later.

`J_DCT_METHOD` `dct_method`

Selects the algorithm used for the DCT step. Choices are:

JDCT_ISLOW: slow but accurate integer algorithm

JDCT_IFAST: faster, less accurate integer method

JDCT_FLOAT: floating-point method

JDCT_DEFAULT: default method (normally JDCT_ISLOW)

JDCT_FASTEST: fastest method (normally JDCT_IFAST)

The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its

use is not

recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom

Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above). (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space

int num_components

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform

Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).

Two values are currently possible:

JCT_NONE and JCT_SUBTRACT_GREEN.

Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval

int restart_in_rows

To emit restart markers in the JPEG file, set one of these nonzero.

Set restart_interval to specify the exact interval in MCU blocks.

Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows

is not 0, then restart_interval is set after the

image width in MCUs is computed.) Defaults are zero (no restarts).

One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG

files than in color files, and MUCH higher in progressive JPEGs.

If you use restarts, you may want to use larger intervals in those cases.

`const jpeg_scan_info * scan_info`

`int num_scans`

By default, `scan_info` is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, `scan_info` points to an array of scan definition records of length `num_scans`. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (`jpeg_simple_progression` creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

`boolean do_fancy_downsampling`

If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding `do_fancy_upsampling` value in decompression.

`int smoothing_factor`

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult `jcsample.c` for details of the smoothing algorithm. The default is zero.

`boolean write_JFIF_header`

If TRUE, a JFIF APP0 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

`UINT8 JFIF_major_version`

`UINT8 JFIF_minor_version`

The version number to be written into the JFIF marker.

`jpeg_set_defaults()` initializes the version to

1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

`UINT8 density_unit`

`UINT16 X_density`

`UINT16 Y_density`

The resolution information to be written into the JFIF marker;

not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker

If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]

Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]

Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage. Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]

JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from

the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor

int v_samp_factor

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no

int ac_tbl_no

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index

Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image

JDIMENSION image_height

int num_components Number of color components

J_COLOR_SPACE jpeg_color_space Colorspace of image

boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen

UINT8 JFIF_major_version Version information from JFIF marker

UINT8 JFIF_minor_version

UINT8 density_unit Resolution data from JFIF marker

UINT16 X_density

UINT16 Y_density

boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

`J_COLOR_SPACE out_color_space`

Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing; grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

`unsigned int scale_num, scale_denom`

Scale the image by the fraction `scale_num/scale_denom`. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by `jpeg_read_header()` with the source DCT size. For baseline JPEG this is 8/8. If you change only the `scale_num` value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to $M/8$ scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

`boolean quantize_colors`

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

`int desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

`boolean two_pass_quantize`

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

`J_DITHER_MODE dither_mode`

Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap

The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors

The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method

Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling

If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.

If FALSE, use only DCT size <= 8 and simple separate upsampling.

Default is TRUE.

For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.

In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers **before** jpeg_start_decompress().

JDIMENSION output_width Actual dimensions of output image.
JDIMENSION output_height
int out_color_components Number of color components in out_color_space.
int output_components Number of color components returned.
int rec_outbuf_height Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

The JPEG standard itself is "color blind" and doesn't specify any particular

color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB $\Leftrightarrow$ YCbCr and CMYK $\Leftrightarrow$ YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color space depending on `in_color_space`, but you can override this by calling `jpeg_set_colorspace()`. Of course you must select a supported transformation. `jccolor.c` currently supports the following transformations:

RGB $\Rightarrow$ YCbCr

RGB $\Rightarrow$ GRAYSCALE

RGB $\Rightarrow$ BG_YCC

YCbCr $\Rightarrow$ GRAYSCALE

YCbCr $\Rightarrow$ BG_YCC

CMYK $\Rightarrow$ YCCK

plus the null transforms: GRAYSCALE $\Rightarrow$ GRAYSCALE, RGB $\Rightarrow$ RGB, BG_RGB $\Rightarrow$ BG_RGB, YCbCr $\Rightarrow$ YCbCr, BG_YCC $\Rightarrow$ BG_YCC, CMYK $\Rightarrow$ CMYK, YCCK $\Rightarrow$ YCCK, and UNKNOWN $\Rightarrow$ UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the interchange standards.

`jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to `JCS_YCbCr`; use `JCS_UNKNOWN`. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for `jpeg_set_colorspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`. `jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF

or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports

`YCbCr => RGB`

`YCbCr => GRAYSCALE`

`BG_YCC => RGB`

`BG_YCC => GRAYSCALE`

`RGB => GRAYSCALE`

`GRAYSCALE => RGB`

`YCCK => CMYK`

as well as the null transforms. (Since `GRAYSCALE=>RGB` is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the `CMYK<=>YCCK` transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- * Fatal errors: the library cannot continue.
- * Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- * Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)

Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit()

default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message(j_common_ptr cinfo)`

Actual output of any JPEG message.

Override this to send messages

somewhere other than `stderr`. Note that this method does not know how to generate a message, only where to send it.

`format_message(j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message(j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`.

The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using addon messages (the addon messages are defined in `cderror.h`).

Actual

invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

`WARNMSn(...)` for corrupt-data warnings

`TRACEMSn(...)` for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the `error_exit()` or `emit_message()` method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard `printf()` format codes.

See `jerror.h` and `jerror.c` for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype `JOCTET`, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define `JOCTET` as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's `empty_output_buffer` method must reset the pointer and count. The manager is expected to remember the buffer's starting address

and total size in private fields not visible to the library.

A data destination manager provides three methods:

`init_destination (j_compress_ptr cinfo)`

Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

`empty_output_buffer (j_compress_ptr cinfo)`

This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

`term_destination (j_compress_ptr cinfo)`

Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

`term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_dest()` or `jpeg_mem_dest()` routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;        /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's `fill_input_buffer` method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`

Initialize source. This is called by `jpeg_read_header()` before any data is actually read. Unlike `init_destination()`, it may leave `bytes_in_buffer` set to 0 (in which case a `fill_input_buffer()` call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)

Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory

filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't

already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- * At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- * When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but

for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- * `jpeg_read_header()`: will return JPEG_SUSPENDED.
- * `jpeg_start_decompress()`: will return FALSE, rather than its usual TRUE.
- * `jpeg_read_scanlines()`: will return the number of scanlines already completed (possibly 0).
- * `jpeg_finish_decompress()`: will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario.

This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return FALSE, which will cause a

suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return `TRUE` just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; `FALSE` is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when `FALSE` is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point.

Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return `FALSE`. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG

image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the `scan_info` cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the `jpeg_simple_progression()` helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in `rdswitch.c`, so that you can read scan script files just like `cjpeg's`.) When `scan_info` is not NULL, the compression library will store DCT'd data into a buffer array as `jpeg_write_scanlines()` is called, and will emit all the requested scans during `jpeg_finish_compress()`. This implies that multiple-scan output cannot be created with a suspending data destination manager, since `jpeg_finish_compress()` does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during `jpeg_start_decompress()`, so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from `jpeg_start_decompress()`.

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in

lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input
```

file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`. The return value is one of the following:

- `JPEG_REACHED_SOS`: reached an SOS marker (the start of a new scan)
- `JPEG_REACHED_EOI`: reached the EOI marker (end of image)
- `JPEG_ROW_COMPLETED`: completed reading one MCU row of compressed data
- `JPEG_SCAN_COMPLETED`: completed reading last MCU row of current scan
- `JPEG_SUSPENDED`: suspended before completing any of the above

(`JPEG_SUSPENDED` can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return `JPEG_REACHED_EOI` without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

- * You can limit buildup of unprocessed data in your input buffer.
- * You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns `JPEG_SUSPENDED` or `JPEG_REACHED_EOI`.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind".

You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the

final pass, the right loop logic is like this:

```
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able)

to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(),

or equivalently by testing jpeg_input_complete().)

In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number;

if a

higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- * jpeg_start_output()

performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)

- * jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.

- * jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan.

(But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)

* `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

- * `dct_method` can be changed before each call to `jpeg_start_output()`.
For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
- * `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.
- * `do_block_smoothing` can be changed before each call to `jpeg_start_output()`. This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
- * Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a

very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
2. Single-pass quantization to an application-supplied colormap.
Selected by setting `cinfo.colormap` to point to the colormap (the value of

two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.

3. Two-pass quantization to a colormap chosen specifically for the image.

Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.

(This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage

requirements, the library requires you to indicate which

one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

You do this by setting one or more of these three cinfo fields to TRUE:

enable_1pass_quant Fixed color cube colormap

enable_external_quant Externally-supplied colormap

enable_2pass_quant Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But

jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must

explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed.

Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during

jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the

buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is

no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header()`'s codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not using buffered-image mode, but in that case it's basically a no-op after the

initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG

standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- * "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- * "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- * "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It

is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each

quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You

cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set `optimize_coding = TRUE` when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See `jpeg_copy_critical_parameters()` for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[i] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[i] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image

or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header()` ... `jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once,

you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct

JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this

routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter

allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It

is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been

read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default

APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component.

This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of `block_size` valid samples, and there must be a multiple of `block_size` sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- * Set `cinfo->raw_data_in` to `TRUE`. (It is set `FALSE` by `jpeg_set_defaults()`.)

This notifies the library that you will be supplying raw data.

Furthermore, set `cinfo->do_fancy_downsampling` to `FALSE` if you want to use real downsampled data. (It is set `TRUE` by `jpeg_set_defaults()`.)

- * Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.

- * Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that `jpeg_write_raw_data` takes a `JSAMPIMAGE` data array rather than `JSAMPARRAY`. The scanlines count passed to and returned from `jpeg_write_raw_data` is measured in terms of the component with the largest `v_samp_factor`.

`jpeg_write_raw_data()` processes one MCU row per call, which is to say `v_samp_factor*block_size` sample rows of each component. The passed `num_lines` value must be at least `max_v_samp_factor*block_size`, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

`cinfo->comp_info[i].width_in_blocks*block_size` samples per row

`cinfo->comp_info[i].height_in_blocks*block_size` rows in image

after `jpeg_start_compress()` has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling

factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions.

The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is

```
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
```

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least $13 \times 8 = 104$ columns and rows, the Cb/Cr data to at least $7 \times 8 = 56$ columns and rows. The MCU height is $\max\_v\_samp\_factor = 2$ DCT rows so you must pass at least 16 scanlines

on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of $7 \times 16 = 112$ "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0.

In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output,

set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a

buffer of at least `max_v_samp_factor*block_size` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input

suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to

release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the

DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- * Create compression object
- * Set all compression parameters as necessary
- * Request virtual arrays if needed
- * `jpeg_write_coefficients()`
- * `jpeg_finish_compress()`
- * Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the

virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire

JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual `sent_table` flags, between calling `jpeg_write_coefficients()` and `jpeg_finish_compress()`.

Progress monitoring

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see `cjpeg.c` or `djpeg.c`.) Although you do get control back frequently during the data-transferring pass (the `jpeg_read_scanlines` or `jpeg_write_scanlines` loop), any additional passes will occur inside `jpeg_finish_compress` or `jpeg_start_decompress`; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime `JPOOL_PERMANENT` will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in

completed_passes. Thus the fraction of work completed may be estimated as

$$\frac{\text{completed\_passes} + (\text{pass\_counter}/\text{pass\_limit})}{\text{total\_passes}}$$

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read

(jpeg_input_complete() isn't

TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG

object

is destroyed. Most data is allocated "per image" and is freed by `jpeg_finish_compress`, `jpeg_finish_decompress`, or `jpeg_abort`. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use `JPOOL_PERMANENT` to get storage that lasts as long as the JPEG object. Use `alloc_large` instead of `alloc_small` for anything bigger than a few Kbytes. There are also `alloc_sarray` and `alloc_barray` routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (`jmemnobs.c`), then no temporary files are used; virtual arrays are simply `malloc()`'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting `cinfo->mem->max_memory_to_use` after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate

them before `jpeg_start_compress()` or `jpeg_start_decompress()` in order to have them counted against the max memory limit. Also keep in mind that space allocated with `alloc_small()` is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting `max_memory_to_use`.

If you use the `jmemname.c` or `jmemdos.c` memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with `jmemdos.c`, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either `jpeg_abort()` or `jpeg_destroy()` for any active JPEG objects. A handler is not needed with `jmemnobs.c`, and shouldn't be necessary with `jmemansi.c` or `jmemmac.c`.

either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead
when the total memory usage would exceed a limit you set.
(But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data

only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision.

If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default.

The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and

UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make
JSAMPLE be int unless you have lots of memory
to burn.

You can reduce the size of the library by compiling out various optional
functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library;
the standard error message table occupies about 5Kb. This is particularly
reasonable for embedded applications where there's no good way to display
a message anyway. To do this, remove the creation of the message table
(jpeg_std_message_table[]) from jerror.c, and alter format_message to do
something reasonable without it. You could output the numeric value of the
message code number, for example. If you do this, you can also save a couple
more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing;
you don't need trace capability anyway, right?

Portability considerations

The JPEG library has been written to be extremely portable; the sample
applications cjpeg and djpeg
are slightly less so. This section summarizes
the design goals in this area. (If you encounter any bugs that cause the
library to be less portable than is claimed here, we'd appreciate hearing
about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of
the popular system include file setups, and some not-so-popular ones too.
See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As
distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will
work fine, although memory may be used inefficiently if char is much larger
than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by
modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain

int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The

JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near

heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /jpeg-9c-tar-gz/jpeg-9c/libjpeg.txt

1.9 libjpeg 4A

1.9.1 Notifications :

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

1.9.2 Available under license :

The Independent JPEG Group's JPEG software

=====

README for release 6b of 27-Mar-1998

=====

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

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This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info
 as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW

=====

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

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

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

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

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

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ

is posted every two weeks to

Usenet newsgroups comp.graphics.misc, news.answers, and other groups.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>

and other news.answers archive sites, including the official news.answers

archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

=====

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free 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.

1.10 visual-studio-runtime 10.00.40219.1

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Please feel free to re-implement this benchmark in any language you choose. I would be happy to incorporate such translations into this distribution together with their timing/size results.

Martin Richards

23 February 2007

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new XElement("fm",
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  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
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    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
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  </PropertyGroup>
  <ItemGroup>
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    <Compile Include="..\..\ServerContracts/Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts/Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts/ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
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      Include="..\..\NativeServer/CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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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

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By Sean Eron Anderson
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Martin Richards

23 February 2007

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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
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  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
    <!-- Blocked on ILAsm supporting embedding resources. See https://github.com/dotnet/coreclr/issues/20819 -->
    <IlrtTestKind>BuildOnly</IlrtTestKind>
    <!-- Test unsupported outside of windows -->
    <TestUnsupportedOutsideWindows>true</TestUnsupportedOutsideWindows>
    <DisableProjectBuild Condition="'$(TargetsUnix)' == 'true'">true</DisableProjectBuild>
    <!-- This test would require the runincontext.exe to include App.manifest describing the COM interfaces -->
    <UnloadabilityIncompatible>true</UnloadabilityIncompatible>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
    <Compile Include="..\..\ServerContracts\Server.CoClasses.cs" />
    <Compile Include="..\..\ServerContracts\Server.Contracts.cs" />
    <Compile Include="..\..\ServerContracts\ServerGuids.cs" />
  </ItemGroup>
  <ItemGroup>
    <ProjectReference
      Include="..\..\NativeServer\CMakeLists.txt" />
    <ProjectReference Include="$(TestSourceDir)Common\CoreCLRTestLibrary\CoreCLRTestLibrary.csproj" />
  </ItemGroup>
</Project>
```

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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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By Sean Eron Anderson
seander@cs.stanford.edu

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*
* /archive-259-zip/REDebugCompiler.java
* /archive-259-zip/RESyntaxException.java
* /archive-259-zip/CharacterIterator.java
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* /archive-259-zip/StringCharacterIterator.java
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1.15 sqlite 3.42.0

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1.16 coreclr 4.8.3761.0

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27. language-php (<https://github.com/atom/language-php>)
28. language-rust version 0.4.9 (<https://github.com/zargony/atom-language-rust>)
29. MagicStack/MagicPython (<https://github.com/MagicStack/MagicPython>)
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32. octicons-font version 3.1.0 (<https://octicons.github.com>)
33. seti-ui version 0.1.0 (<https://github.com/jesseweed/seti-ui>)
34. shaders-tmLanguage version 0.1.0 (<https://github.com/tgjones/shaders-tmLanguage>)
35. string_scorer version 0.1.20 (https://github.com/joshaven/string_score)
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1.17 apr 1.7.4

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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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1.18 zlib 1.2.13

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1.19 winpthreadgc 1.0.0

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```

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```
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```

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1.25 lcms 2.16

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Version 3, 29 June 2007

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1.26 zlib 1.2.11

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1.27 zlib 1.3.1

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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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).

*/

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1.28 coreclr 4.8.3928

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1.30 libpng 1.6.43

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.32 openssl 3.0.14

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1.37 windows installer xml - soc 3.6.3408

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title: Specifying the WiX Standard Bootstrapper Application License

layout: documentation

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```
<pre>  &lt;?xml version=&quot;1.0&quot;?&gt;
    &lt;Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    &lt;Bundle&gt;
    &lt;BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.RtfLicense&quot;&gt;
    &lt;bal:WixStandardBootstrapperApplication
      <strong class="highlight">LicenseFile=&quot;path\to\license.rtf&quot;</strong>
      LogoFile=&quot;path\to\customlogo.png&quot;
    /&gt;
    &lt;/BootstrapperApplicationRef&gt;

    &lt;Chain&gt;
    ...
    &lt;/Chain&gt;
    &lt;/Bundle&gt;
  &lt;/Wix&gt;</pre>
```

The following example links to a license page on the internet.


```

<pre>  <?xml version="1.0">
    <Wix xmlns="http://schemas.microsoft.com/wix/2006/wi"
xmlns:bal="http://schemas.microsoft.com/wix/BalExtension">
    <Bundle>
    <BootstrapperApplicationRef Id="WixStandardBootstrapperApplication.HyperlinkLicense">
    <bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseUrl="http://example.com/license.html"</strong>
    LogoFile="path\to\customlogo.png"
    />
    </BootstrapperApplicationRef>

    <Chain>
    ...
    </Chain>
    </Bundle>
    </Wix></pre>

```

When using a WixStdBA theme that displays the license as a hyperlink, the license is optional. Provide an empty string for WixStandardBootstrapperApplication/@LicenseUrl---the hyperlink and accept license checkbox are not displayed, providing an "unlicensed" installation experience.

If you get an error indicating `The Windows Installer XML variable !(wix.WixStdbaLicenseUrl) is unknown`, provide a value for WixStandardBootstrapperApplication/@LicenseUrl, even if it's an empty string.

```

---
title: WiX Toolset License
layout: documentation
---

```

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layout: documentation

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When using a WixStdBA theme that displays the RTF license, it is highly recommended that the license is overridden because the default uses `"Lorem ipsum"` placeholder text. The following example uses a `license.rtf` file found in the `"path\to"` folder relative to the linker bind paths.

```
<pre>  &lt;?xml version=&quot;1.0&quot;?&gt;
    &lt;Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    &lt;Bundle&gt;
    &lt;BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.RtfLicense&quot;&gt;
    &lt;bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseFile=&quot;path\to\license.rtf&quot;</strong>
    LogoFile=&quot;path\to\customlogo.png&quot;
    /&gt;
    &lt;/BootstrapperApplicationRef&gt;

    &lt;Chain&gt;
    ...
    &lt;/Chain&gt;
    &lt;/Bundle&gt;
    &lt;/Wix&gt;</pre>
```

The following example links to a license page on the internet.

```
<pre>  &lt;?xml version=&quot;1.0&quot;?&gt;
    &lt;Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    &lt;Bundle&gt;
    &lt;BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.HyperlinkLicense&quot;&gt;
    &lt;bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseUrl=&quot;http://example.com/license.html&quot;</strong>
```

```

    LogoFile="path\to\customlogo.png"
    />
    </BootstrapperApplicationRef>

    <Chain>
    ...
    </Chain>
    </Bundle>
    </Wix></pre>

```

When using a WixStdBA theme that displays the license as a hyperlink, the license is optional. Provide an empty string for WixStandardBootstrapperApplication/@LicenseUrl---the hyperlink and accept license checkbox are not displayed, providing an "unlicensed" installation experience.

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layout: documentation

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```
<pre>  &lt;?xml version=&quot;1.0&quot;?&gt;
    &lt;Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    &lt;Bundle&gt;
    &lt;BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.RtfLicense&quot;&gt;
    &lt;bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseFile=&quot;path\to\license.rtf&quot;</strong>
    LogoFile=&quot;path\to\customlogo.png&quot;
    /&gt;
    &lt;/BootstrapperApplicationRef&gt;

    &lt;Chain&gt;
    ...
    &lt;/Chain&gt;
    &lt;/Bundle&gt;
    &lt;/Wix&gt;</pre>
```

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```
<pre>  &lt;?xml version=&quot;1.0&quot;?&gt;
    &lt;Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    &lt;Bundle&gt;
    &lt;BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.HyperlinkLicense&quot;&gt;
    &lt;bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseUrl=&quot;http://example.com/license.html&quot;</strong>
    LogoFile=&quot;path\to\customlogo.png&quot;
    /&gt;
    &lt;/BootstrapperApplicationRef&gt;

    &lt;Chain&gt;
    ...
    &lt;/Chain&gt;
    &lt;/Bundle&gt;
    &lt;/Wix&gt;</pre>
```


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BImageSmallThumbnailSalientRegions2ImageSmallThumbnailHeight0ImageSmallThumbnailWidth

NetworkMessageId0ExchangeApplicationFlags^X-MS-Exchange-Organization-ATPSafeLinks-

MsgData@AntispamSafelinksIsIntraOrgEmailFEntityExtraction/ExtractLanguage1.0>EntityExtraction/EmbeddedU

rl1.0Bx-ms-exchange-organization-

authas:InferenceClassificationResultClientInfo2CurrentMessageSafetyFlagsEntityNames,HeaderBodyFragmentList

HasQuotedText&IsQuotedTextChangedacceptlanguage6ConversationIndexTrackingExdx-ms-exchange-

organization-originalclientipaddressdx-ms-exchange-organization-originalserveripaddressJx-ms-exchange-

organization-authsource,LatestMessageWordCountIsSignedIsReadReceiptPx-ms-exchange-organization-

authmechanismBInferenceClassificationTrackingExTeeVersionTeeNextScenarioTeeNextPayload.EntityExtraction/

Url1.0JX-Microsoft-Antispam-Mailbox-DeliveryBX-Microsoft-Antispam-Message-

Info4InferenceMessageIdentifierNEntityExtraction/KeyPhraseExtraction2.0,x-ms-publictraffictypex-ms-has-

attach,authentication-resultsNx-ms-office365-filtering-correlation-id4x-ms-traffictypediagnostic6x-forefront-

antispam-report(x-microsoft-antispamXx-ms-exchange-crosstenant-network-message-idZx-ms-exchange-

crosstenant-originalarrivaltimeTx-ms-exchange-crosstenant-fromentityheader8x-ms-exchange-crosstenant-idJx-ms-

exchange-crosstenant-mailboxtypeVx-ms-exchange-crosstenant-userprincipalnamebx-ms-exchange-transport-

crosstenantheadersstampedNx-ms-exchange-transport-endoendlatencyNx-ms-exchange-processed-by-

bccfoldering@x-ms-exchange-crosstenant-authasHx-ms-exchange-crosstenant-
 authsource>OriginalInferenceClassificationHGriffinInferenceClassificationResult:InferenceClassificationReason2Cl
 assificationDiagnostics2ConversationContributions,ConversationWasFocused4TriageHeuristicsFeatureSetBGriffin
 TriageHeuristicsFeatureSet:SharedWithMe/HasSharedContent,FocusedInboxModelScore.SharedWithMe/HasWebL
 inkDarwin/Url2.0@EntityExtraction/CreativeWork1.0xEntityExtraction/KeyPhraseExtractionPosTaggerTeeInferen
 ce2.08BigFunnelCompleteIndexingEnd<BigFunnelCompleteIndexingStart,BigFunnelCorrelationId\$IsPartiallyIndex
 ed.LastIndexingAttemptTime.ExtractedFromTEENetCore__substg1.0_10030102*(__substg1.0_10040102*__subst
 g1.0_10050102*__substg1.0_10060102*
 +
 R
)c
 +k('
 48 G4KV
 (j
 *W MS OwB F}=Lha)
 (
 -xxBGSH__substg1.0_10070102*__substg1.0_10080102*__substg1.0_10090102*__substg1.0_100A0102*
 __substg1.0_100B0102*__substg1.0_100C0102*
 __substg1.0_100D0102*8__substg1.0_100E0102*
 2
 1
 QpbuTj !#
 5f.=F3\$D/l#&Te,w
 yz%h '5>d7
 \$uK
 %__substg1.0_100F0102*__substg1.0_10100102*__substg1.0_10110102*__substg1.0_10120102*__substg1.0_10
 130102*
 __substg1.0_10140102*!__substg1.0_10160102*"__substg1.0_10170102*#6
 9-?l; ?jIGa 9KNb. ?AOSEJ#/V S

 QK
 .D&:xj@k]C#
 4 'u%C__substg1.0_10180102*\$__substg1.0_10190102*%0__substg1.0_101A0102*&__substg1.0_101B0102*!'
 __substg1.0_101C0102*(__substg1.0_101D0102* ") __substg1.0_101E0102** __substg1.0_001A001F*\$+ t "2I #Z,
 y
 /P
 6<V~b
 .)(
 3IPM.NoteLicense URLs and Parent component details for Windows 2019 LTSC
 imageEX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
 (FYDIBOHF23S__substg1.0_0037001F*,__substg1.0_003B0102*#/_substg1.0_003D001F*__substg1.0_003F01
 02*&(2PDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
 AMAKOTHA@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
 (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
 MMALAYANMarimuthu Malayandi (mmalayan)@B+//o=ExchangeLabs/ou=Exchange
 Administrative Group
 (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f14858__substg1.0_0040001F*5<__substg1.0_00410102*
 %-6__substg1.0_0042001F*9.__substg1.0_00430102**.,93feee6a76ad1ba6-amakothaAman Kothari

(amakotha)@B+//O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANMarimuthu Malayandi (mmalayan)EX:/O=EXCHANGELABS/OU=EXCHANGE
ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYAN__substg1.0_0044001F*=<__substg1.0_00510102*+/>__substg1.0_00520102*A__substg1.0_00640
01F*.0DEX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1__substg1.0_0065001F*E__substg1.0_0070001F*)
9I__substg1.0_00710102*L__substg1.0_0075001F*24M485893FEEE6A76AD1BA6-AMAKOTHALicense URLs
and Parent component details for Windows 2019
LTSC image6G~M{nHEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDL__substg1.0_0076001F*N__substg1.0_0077001F*37R__substg1.0_0078001F*S__substg1.0_
007D001F*68%4\$T)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYANEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=8357352A9AC74291872DEE4575F68898-
MMALAYAN<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.pReceived:
from CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17)

by DM4PR11MB5407.namprd11.prod.outlook.com with HTTPS; Tue, 20 Aug 2024

12:38:29 +0000

Authentication-Results: dkim=none (message not signed)

header.d=none;dmARC=none action=none header.from=cisco.com;

Received: from SA2PR11MB4793.namprd11.prod.outlook.com (2603:10b6:806:fa::8)

by CY8PR11MB7747.namprd11.prod.outlook.com (2603:10b6:930:91::17) with

Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.7875.19; Tue, 20 Aug

2024 12:38:28

+0000

Received: from SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef]) by SA2PR11MB4793.namprd11.prod.outlook.com

([fe80::58a0:85b1:cb5d:a0ef%4]) with mapi id 15.20.7875.019; Tue, 20 Aug 2024

12:38:28 +0000

Content-Type: application/ms-tnef; name="winmail.dat"

Content-Transfer-Encoding: binary

From: "Aman Kothari (amakotha)" <amakotha@cisco.com>

To: "Marimuthu Malayandi (mmalayan)" <mmalayan@cisco.com>

CC: "Salil G K (sagk)" <sagk@cisco.com>

Subject: License URLs and Parent component details for Windows 2019 LTSC image

Thread-Topic: License URLs and Parent component details for Windows 2019 LTSC
image

Thread-Index: AQHa8v020JWnR34fHE2Oj3tu5q9IEw==

Date: Tue, 20 Aug 2024 12:38:27 +0000

Message-ID:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

Accept-Language: en-US

Content-Language: en-IN

X-MS-Has-Attach: yes

X-MS-Exchange-Organization-SCL: 1

X-MS-TNEF-Correlator:

<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2PR11MB4793.namprd11.prod.outlook.com>

MIME-Version:

1.0

X-MS-Exchange-Organization-MessageDirectionality: Originating

X-MS-Exchange-Organization-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-Organization-AuthAs: Internal

X-MS-Exchange-Organization-AuthMechanism: 04

X-MS-Exchange-Organization-Network-Message-Id:

ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-PublicTrafficType: Email

X-MS-TrafficTypeDiagnostic:

SA2PR11MB4793:EE_|CY8PR11MB7747:EE_|DM4PR11MB5407:EE_

Return-Path: amakotha@cisco.com

X-MS-Exchange-Organization-ExpirationStartTime: 20 Aug 2024 12:38:28.5883

(UTC)

X-MS-Exchange-Organization-ExpirationStartTimeReason: OriginalSubmit

X-MS-Exchange-Organization-ExpirationInterval: 1:00:00:00.0000000

X-MS-Exchange-Organization-ExpirationIntervalReason: OriginalSubmit

X-MS-Office365-Filtering-Correlation-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-AtpMessageProperties: SL

X-M365-Tenant-Cisco-ID: d8eb5f98-55ca-42f7-92f6-452cfa7add59

X-Microsoft-Antispam:

BCL:0;ARA:13230040|366016|41050700001;

X-Forefront-Antispam-Report:

CIP:255.255.255.255;CTRY;;LANG:en;SCL:1;SRV;;IPV:NLI;SFV:NSPM;H:SA2PR11MB4793.namprd11.prod.outlook.com;PTR;;CAT:NONE;SFS:(13230040)(366016)(41050700001);DIR:INT;

X-MS-Exchange-CrossTenant-OriginalArrivalTime: 20 Aug 2024 12:38:27.9860

(UTC)

X-MS-Exchange-CrossTenant-FromEntityHeader: Hosted

X-MS-Exchange-CrossTenant-Id: 5ae1af62-9505-4097-a69a-c1553ef7840e

X-MS-Exchange-CrossTenant-AuthSource: SA2PR11MB4793.namprd11.prod.outlook.com

X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-Network-Message-Id: ae58cdcc-7894-4f0f-8074-08dcc114fdbe

X-MS-Exchange-CrossTenant-MailboxType: HOSTED

X-MS-Exchange-CrossTenant-UserPrincipalName:

3w+lEr5Syz6U17XhnjV+ziQoyeAButBZPWvDHcUEHStczQepJ216vYEgy1ezPTqd4EYOSjEcvIT2xgXlBIYKgA
==

X-MS-Exchange-Transport-CrossTenantHeadersStamped: CY8PR11MB7747

X-MS-Exchange-Transport-EndToEndLatency: 00:00:02.0031318

X-MS-Exchange-Processed-By-BccFoldering:

15.20.7875.019

X-Microsoft-Antispam-Mailbox-Delivery:

ucf:0;jmr:0;auth:0;dest:I;ENG:(910001)(944506478)(944626604)(920097)(425001)(930097)(140003);

X-Microsoft-Antispam-Message-Info:

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k/ZAtxW2Z0D4lXr/wf/vWI6wvfGDh/9Ud9c5eRoJmm/7vwHByp1OSWXFetZYeA+CHmQjhrOGMieflCgbwtLcJ
GfgL4yZbDwgjYDnkA0kK271yHAHUfQsqrIWVm2TUTQpAIXHAzOmntq10Z2XTD0sP2eUsDXoliSeBx3ZTnF
hccFvXbdz6wVb0lIPJoTj+hvODA6H+5w/5lkeHyjDH8rLrkYzgmLhc4z0IRHKF3JYRj4G1q/mtp7NiOCefO0EhaR
QOv/YAb1kA4lilkmtCEPE0aJQla3OSpqk83ou/ckCnMkZ2YRNGYk9A6vqGF5etofmlq3F/8dQSALQMkXfn4EcO
864kWc8GBKcT3jXx3kbM1pWAJDITsIIS69yFi4DBJKB9jK6+myweLo12boJhphpDLF2ev77knTmj4ApoNAb75
gOIOofPOdlja1q77FBx7qq8Y0sX4RYZBvBrmIeR56lXesU7kmBlGa/eHcSgqNhg9hKaZXVZC3GrI9u4Fp4Bm0M
Kugp2QrEAAM2aNN5pmvb1UVXR8+stxZh9e7OBLFLXYC2hqWknvkWEetYmKRl5zvjlUfXtIIYLBRRPYGHc
5GCmlLHcQ==

__substg1.0_007F0102*WQ__substg1.0_0C190102*5=Y__substg1.0_0C1A001F*\.__substg1.0_0C1D0102*:<]rod
.outlook.com>@B+//o=ExchangeLabs/ou=Exchange

Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e590788e86f1485893feee6a76ad1ba6-
amakothaAman Kothari (amakotha)EX:/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-
AMAKOTHA__substg1.0_0C1E001F*`\_\_substg1.0\_0C1F001F\*`;?a__substg1.0_0C2D0102*e__substg1.0_0C2E01
02*>@fEX/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP
(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E590788E86F1485893FEEE6A76AD1BA6-AMAKOTHALX
LX

Salil G K

(sagk)__substg1.0_0E02001F*__substg1.0_0E03001F*1Qg"__substg1.0_0E04001F*h>__substg1.0_0E05001F*B
Di

Marimuthu Malayandi (mmalayan)InboxLicense URLs and Parent component details for Windows 2019 LTSC
image)EUzgbOSIq:(Zi%:(Zi%__substg1.0_0E1D001F*j__substg1.0_0E4C0102*CGm__substg1.0_0E4D0102*n__
substg1.0_0E4E0102*FHo__substg1.0_0E580102*p__substg1.0_0E590102*EMq__substg1.0_0F030102*r__subst
g1.0_1000001F*JLs:(Zi%:(ZiAG~M{nHHi

Marimuthu,

As per our discussion over Webex, please find herewith links to Licenses, Third Party notices and Image details for Windows 2019 LTSC image:

<https://hub.docker.com/r/microsoft/windows-servercore>

<https://3rdpartysource.microsoft.com/>

<https://www.microsoft.com/en-us/legal/third-party-notices>

<https://github.com/microsoft/containerregistry/tree/main/legal>

Have also attached image depicting parent component.

This is in reference to -

SBOM: <https://corona.cisco.com/releases/331413/images/1186257>

TPSC scan: <https://tpscompliance.cisco.com/compliance/product-releases/product/1343902673/release/2143298352/commercial-bom>

Please let know if any other details are required.

Thanks,

Aman

bLZFu*
rcpg1252Chtml11bid0
'ch
set0 PVUUQW2U3FYkcu ;B7
134R`cP dL364 *\9 < x:o="Ipn:hesL-m
`so-]m
e!"w /! ?# d"m#@tp://U#.\$.! /! /04/ (m"&Gw*`.w3.g/TR/REC-40">cAead+k
-}6__substg1.0_10090102*__substg1.0_1035001F*KO__substg1.0_120B0102*__substg1.0_300B0102*NP<
lna#@G at"0 t#@M\$6 W% 15 (" qPum)+ /s0tyle4//!-B-
/* F! Diti */
@-fne
0{95\$ ly:"C0Pb!0h""9
n\$`pe-1:p023=06==a` }8{9:A0\$`</=310pCV>7qSG5r7
p.M!PNI, liFZ}PvFX?*:0cmA?#z"0yB.00J.:A3",sqKrAm!P-Gg0p#nd1SxO1N|?pP#!`ngPg"0EN-
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w0&;xk}%+|@G1@`#@r+{! [6},pfFg4~85A<zxS@OTH&i;mu;u,5,o^pu@w?5&<
(

8w^/A U aG.u8avWebPFPjQDE12#P;{C 1 L"FThi2P
w@00o8P" P Il1 c3 !LTSC pj\vr \/_o8,0 hPf&D&b.cPck'r/'\$*Pa""etldrfw0{@HYPERL{K
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w@!Pp" 'Mo'M??/?Oog*b\5 -P/w`Opl;!Vr-O_nO_o@?/?O_oI@'81RPIw0ry T_oT?
?//?O_!
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OPQ/R?SOT_UoV\XYZ[\]nOoSSBOM:
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b@xy~/?O?/?OVPqeH@kwwg`4py
Fr?GAaF F
`quFH_ohpks,Awn_obOc_doe ghWij0/vSg5p/dy"74}<SA2PR11MB479332898984E7BB5EC417C8D48D2@SA2P
R11MB4793.namprd11.prod.outlook.com>bLTqGo09
js

+QWY 13579;=GIKSU]? "B@Q?*%)-ACE2[:B/Marimuthu Malayandi
(mmalayan)__substg1.0_30140102*__substg1.0_36770102*IYJ__substg1.0_3FFA001F*<__substg1.0_3FFB0102*


```

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    "@type": "Language"

}

}

]InternalClient=OutlookService;MacOutlook/16.88.24081116 (ARM64 Mac OS X 14.6.1 (Build 23G93));[

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    "@context": "http://schema.org",

    "@source": "TEE,52.0.0,2024.7.9.1.V2,unknown;en-US.url,52.0.0,2021.5.5.1,2021.5.5.1",

    "@entityExtractionTrustLevel": "Unknown",

    "@outputVersion": "1.0",

    "@schemaOrgVersion": "1.93",

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        "length": 53

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    "@EntityId": "0d787665-7b59-4513-b6bb-c5914e04f509",

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    "@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

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{

    "@type": "ContactPoint",

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"@source": "TEE,52.0.0,2024.7.9.1.V2,unknown;en-US.url,52.0.0,2021.5.5.1,2021.5.5.1",

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"@schemaOrgVersion": "1.93",

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},

{

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86a9-13f35985a00e",

"@extractionTimeUtc": "2024-08-20T12:38:31.2876725Z"

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@ @X @ @ @lA @ @N @ @md @ @ %t @ @ @`h#[ @ @ @E/ / @ @ @F @ @ ,zE @ @- 0 @ @ @`n+ ,]w}
@ @X`K:n @ @ @.V9 ;R\_eu>u @ @ @5M`@WC @ @ @`V9 P* @ @ @g;5-" @ @ @ @H @ @N @ @T* @
@ ,a%|q @ @U# @ @XK:5 @ @ PG @ @ uj @ @ @
T @ @ @` , @ @ @ @ @ @ @X @ @ @\* P%< @ @ @%, /S#@ @ @U@ @Jx\$ @ @ @KX@ @`_F @ @ @H
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@ @N @ @T* @ @ ,a%|q @ @U# @ @XK:5-? ,|q< @ @0<% @ @ @KU`R=U=v\{Zr!e|jvv+ XY`*?V^Kfr. @
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1.41 microsoft® .net framework 10.0.30319.1

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1.43 windows installer xml 3.5.0626

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title: Specifying the WiX Standard Bootstrapper Application License

layout: documentation

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```
<pre>  &lt;?xml version=&quot;1.0&quot;?&gt;
    &lt;Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    &lt;Bundle&gt;
    &lt;BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.RtfLicense&quot;&gt;
    &lt;bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseFile=&quot;path\to\license.rtf&quot;</strong>
    LogoFile=&quot;path\to\customlogo.png&quot;
    /&gt;
    &lt;/BootstrapperApplicationRef&gt;

    &lt;Chain&gt;
    ...
    &lt;/Chain&gt;
    &lt;/Bundle&gt;
    &lt;/Wix&gt;</pre>
```

The following example links to a license page on the internet.

```
<pre>  &lt;?xml version=&quot;1.0&quot;?&gt;
    &lt;Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    &lt;Bundle&gt;
    &lt;BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.HyperlinkLicense&quot;&gt;
    &lt;bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseUrl=&quot;http://example.com/license.html&quot;</strong>
```



```

    LogoFile="path\to\customlogo.png"
    />
    </BootstrapperApplicationRef>

    <Chain>
    ...
    </Chain>
    </Bundle>
    </Wix>
</pre>

```

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title: WiX Toolset License

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

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```
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```

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.48 windows installer xml toolset 3.11.0.1701

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title: Specifying the WiX Standard Bootstrapper Application License

layout: documentation

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```
<pre>  <?xml version=&quot;1.0&quot;?&gt;
    <Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
xmlns:bal=&quot;http://schemas.microsoft.com/wix/BalExtension&quot;&gt;
    <Bundle&gt;
    <BootstrapperApplicationRef Id=&quot;WixStandardBootstrapperApplication.RtfLicense&quot;&gt;
    <bal:WixStandardBootstrapperApplication
    <strong class="highlight">LicenseFile=&quot;path\to\license.rtf&quot;</strong>
    LogoFile=&quot;path\to\customlogo.png&quot;
    /&gt;
    </BootstrapperApplicationRef&gt;

    <Chain&gt;
    ...
    </Chain&gt;
    </Bundle&gt;
    </Wix&gt;</pre>
```

The following example links to a license page on the internet.

```
<pre>  <?xml version=&quot;1.0&quot;?&gt;
    <Wix xmlns=&quot;http://schemas.microsoft.com/wix/2006/wi&quot;
```

```

xmlns:bal="http://schemas.microsoft.com/wix/BalExtension"
<Bundle>
  <BootstrapperApplicationRef Id="WixStandardBootstrapperApplication.HyperlinkLicense">
    <bal:WixStandardBootstrapperApplication
      <strong class="highlight">LicenseUrl="http://example.com/license.html"</strong>
      LogoFile="path\to\customlogo.png"
    />
  </BootstrapperApplicationRef>

  <Chain>
    ...
  </Chain>
</Bundle>
</Wix>

```

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1.50 jtds-sql-server-and-sybase-jdbc-driver

1.0.2

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

That's all there is to it!

1.51 apache tomcat isapi_redirector connector 1.2.41.1

1.51.1 Available under license :

PGM

```
CRTCMOD MODULE(MOD_JK/MOD_JK) +  
SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('mod_jk.c') +  
OPTIMIZE(40) +  
SYSIFCOPT(*IFSIO) +  
TGTCSSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDDL(*INHERIT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('jk_ajp_common.c') +  
OPTIMIZE(40) +  
SYSIFCOPT(*IFSIO) +  
LANGLVL(*ANSI) +  
TGTCSSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDDL(*INHERIT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('jk_ajp12_worker.c') +  
OPTIMIZE(40)  
+  
SYSIFCOPT(*IFSIO) +  
LANGLVL(*ANSI) +
```

```
TGTCCSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDDL(*INHERIT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP13) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('jk_ajp13.c') +  
OPTIMIZE(40) +  
SYSIFCOPT(*IFSIO) +  
LANGLVL(*ANSI) +  
TGTCCSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDDL(*INHERIT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('jk_ajp13_worker.c') +  
OPTIMIZE(40) +  
SYSIFCOPT(*IFSIO) +  
LANGLVL(*ANSI) +  
TGTCCSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDDL(*INHERIT) +
```

```
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP14) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('jk_ajp14.c') +  
OPTIMIZE(40) +  
SYSIFCOPT(*IFSIO) +  
LANGLVL(*ANSI) +  
TGTCCSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDDL(*INHERIT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +  
SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
```

```

DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_ajp14_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCSSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPD/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
SRCSTMF('/home/apache/jk/native/common/jk_connect.c')
+
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_connect.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCSSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPD/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_context.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCSSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPD/Include')

CRTCMOD MODULE(MOD_JK/JK_JNI_WOR) +
SRCSTMF('/home/apache/jk/native/common/jk_jni_worker.c') +
DEFINE('AS400' 'HAVE_JNI' 'OS400_JVM_12' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_jni_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO)
+
LANGLVL(*ANSI) +
TGTCSSID(*JOB) +
OPTION(*LOGMSG) +

```

```

TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_lb_worker.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_map.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common'
'/QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_md5.c') +
OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCCSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
TEXT('jk_msg_buff.c') +

```

```

OPTIMIZE(40) +
SYSIFCOPT(*IFSIO) +
LANGLVL(*ANSI) +
TGTCSSID(*JOB) +
OPTION(*LOGMSG) +
TERASPACE(*YES *TSIFC) +
STGMDDL(*INHERIT) +
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
  DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5'
'_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*ANSI) +
  TGTCSSID(*JOB) +
  OPTION(*LOGMSG) +
  TERASPACE(*YES *TSIFC) +
  STGMDDL(*INHERIT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_SOCKETBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_socketbuf.c') +
  DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_socketbuf.c') +
  OPTIMIZE(40) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*ANSI) +
  TGTCSSID(*JOB) +
  OPTION(*LOGMSG) +
  TERASPACE(*YES *TSIFC) +
  STGMDDL(*INHERIT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')

```

```

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*ANSI) +
  TGTCSSID(*JOB) +
  OPTION(*LOGMSG)
+
  TERASPACE(*YES *TSIFC) +
  STGMDDL(*INHERIT) +

```



```
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_UTIL) +  
SRCSTMF('/home/apache/jk/native/common/jk_util.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('jk_util.c') +  
OPTIMIZE(40) +  
SYSIFCOPT(*IFSIO) +  
LANGVL(*ANSI) +  
TGTCSSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDL(*INHERIT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_WORKER) +  
SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +  
DEFINE('AS400' 'HAVE_JNI' 'USE_APACHE_MD5' '_REENTRANT') +  
TEXT('jk_worker.c') +  
OPTIMIZE(40) +  
SYSIFCOPT(*IFSIO) +  
LANGVL(*ANSI) +  
TGTCSSID(*JOB) +  
OPTION(*LOGMSG) +  
TERASPACE(*YES *TSIFC) +  
STGMDL(*INHERIT) +  
INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPPA/Include')
```

```
CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +  
MODULE(MOD_JK/MOD_JK +  
MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +  
MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +  
MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +  
MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +  
MOD_JK/JK_JNI_WOR MOD_JK/JK_LB_WORK +  
MOD_JK/JK_MAP MOD_JK/JK_MD5 +  
MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +  
MOD_JK/JK_SOCKETBUF MOD_JK/JK_URI_W_M +  
MOD_JK/JK_UTIL MOD_JK/JK_WORKER) +  
EXPORT(*SRCFILE) +  
BNDDIR() +  
SRCFILE(MOD_JK/QSRVSR) +  
SRCMBR(MOD_JK) +  
DETAIL(*BASIC) +  
STGMDL(*INHERIT) +  
BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +  
QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +  
TEXT('Apache mod_jk tomcat connector module')
```

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xwd v1.0.7

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...

Behdad Esfahbod

David Corbett

David Turner

Ebrahim Byagowi

Garret Rieger

Jonathan Kew

Khaled Hosny

Lars Knoll

Martin Hosken

Owen Taylor

Roderick Sheeter

Roozbeh Pournader

Simon Hausmann

Werner Lemberg

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AUTHORS File Information

...

Main Author

Marti Maria

Contributors

Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
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Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
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Patrick Noffke
Christopher James Halse Rogers
John Hein
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Sergei Trofimovic
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SipHash v1.0-68c8a7c

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CUP Parser Generator for Java v 0.11b

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== Authors ==

Gershon Elber <gershon[AT]cs.technion.sc.il>
original giflib code

Toshio Kuratomi <toshio[AT]tiki-lounge.com>
uncompressed gif writing code
former maintainer

Eric Raymond <esr[AT]snark.thyrsus.com>
current as well as long time former maintainer of giflib code

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#

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#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

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/ftrandom/ftrandom.c

#

subprojects/dlg

#

#

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```
<pre> <?xml version="1.0"?>
  <?wix xmlns="http://schemas.microsoft.com/wix/2006/wi"
  xmlns:bal="http://schemas.microsoft.com/wix/BalExtension">
```

```

    <Bundle>
    <BootstrapperApplicationRef Id="WixStandardBootstrapperApplication.RtfLicense">
    <bal:WixStandardBootstrapperApplication
        <strong class="highlight">LicenseFile="path\to\license.rtf"</strong>
        LogoFile="path\to\customlogo.png"
        />
    </BootstrapperApplicationRef>

    <Chain>
    ...
    </Chain>
    </Bundle>
</Wix>

```

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```

<pre>  <?xml version="1.0"?>
    <Wix xmlns="http://schemas.microsoft.com/wix/2006/wi"
    xmlns:bal="http://schemas.microsoft.com/wix/BalExtension">
    <Bundle>
    <BootstrapperApplicationRef Id="WixStandardBootstrapperApplication.HyperlinkLicense">
    <bal:WixStandardBootstrapperApplication
        <strong class="highlight">LicenseUrl="http://example.com/license.html"</strong>
        LogoFile="path\to\customlogo.png"
        />
    </BootstrapperApplicationRef>

    <Chain>
    ...
    </Chain>
    </Bundle>
    </Wix>

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xwd v1.0.7

xwd utility

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### AUTHORS File Information

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Main Author

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Marti Maria

Contributors

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Bob Friesenhahn

Kai-Uwe Behrmann

Stuart Nixon

Jordi Vilar

Richard Hughes

Auke Nauta

Chris Evans (Google)

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Shawn Pedersen

Andrew Brygin

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Behdad Esfahbod  
David Corbett  
David Turner  
Ebrahim Byagowi  
Garret Rieger  
Jonathan Kew  
Khaled Hosny  
Lars Knoll  
Martin Hosken

Owen Taylor  
Roderick Sheeter  
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jloup@gzip.org      madler@alumni.caltech.edu

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Mesa 3-D  
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include/GL/glxext.h  
include/GL/wglxext.h :

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== Authors ==

Gershon Elber <gershon[AT]cs.technion.sc.il>  
original giflib code

Toshio Kuratomi <toshio[AT]tiki-lounge.com>  
uncompressed gif writing code  
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Additional Attribution.

Tatu Ylonen <ylo@cs.hut.fi> - Creator of SSH

Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos,

Theo de Raadt, and Dug Song - Creators of OpenSSH

Ahsan Rashid <arms@sco.com> - UnixWare long passwords

Alain St-Denis <Alain.St-Denis@ec.gc.ca> - Irix fix

Alexandre Oliva <oliva@lsd.ic.unicamp.br> - AIX fixes

Andre Lucas <andre@ae-35.com> - new login code, many fixes

Andreas Steinmetz <ast@domdv.de> - Shadow password expiry support

Andrew McGill <andrewm@datatrix.co.za> - SCO fixes

Andrew Morgan <morgan@transmeta.com> - PAM bugfixes

Andrew Stribblehill <a.d.stribblehill@durham.ac.uk> - Bugfixes

Andy Sloane <andy@guildsoftware.com> - bugfixes

Aran Cox <acox@cv.telegroup.com> - SCO bugfixes

Arkadiusz Miskiewicz <misiek@pld.org.pl> - IPv6 compat fixes

Ben Lindstrom <mouring@eviladmin.org> - NeXT support

Ben

Taylor <bent@clark.net> - Solaris debugging and fixes

Bratislav ILICH <bilic@zepter.ru> - Configure fix

Charles Levert <charles@comm.polymtl.ca> - SunOS 4 & bug fixes

Chip Salzenberg <chip@valinux.com> - Assorted patches

Chris Adams <cmadams@hiwaay.net> - OSF SIA support  
Chris Saia <csaia@wtower.com> - SuSE packaging  
Chris, the Young One <cky@pobox.com> - Password auth fixes  
Christos Zoulas <christos@zoulas.com> - Autoconf fixes  
Chun-Chung Chen <cjj@u.washington.edu> - RPM fixes  
Corinna Vinschen <vinschen@redhat.com> - Cygwin support  
Chad Mynhier <mynhier@interstel.net> - Solaris Process Contract support  
Dan Brosemer <odin@linuxfreak.com> - Autoconf support, build fixes  
Darren Hall <dhall@virage.org> - AIX patches  
Darren Tucker <dtucker@zip.com.au> - AIX BFF package scripts  
David Agraz <dagraz@jahoopa.com> - Build fixes  
David Del Piero <David.DelPiero@qed.qld.gov.au> - bug fixes  
David Hesprich <darkgrue@gue-tech.org> - Configure fixes  
David Rankin <drankin@bohemians.lexington.ky.us>  
- libwrap, AIX, NetBSD fixes  
Dag-Erling Smrgrav <des at freebsd.org> - Challenge-Response PAM code.  
Dhiraj Gulati <dgulati@sco.com> - UnixWare long passwords  
Ed Eden <ede370@stl.rural.usda.gov> - configure fixes  
Garrick James <garrick@james.net> - configure fixes  
Gary E. Miller <gem@rellim.com> - SCO support  
Ged Lodder <lodder@yacc.com.au> - HPUX fixes and enhancements  
Gert Doering <gd@hilb1.medat.de> - bug and portability fixes  
HARUYAMA Seigo <haruyama@unixuser.org> - Translations & doc fixes  
Hideaki YOSHIFUJI <yoshfuji@ecei.tohoku.ac.jp> - IPv6 and bug fixes  
Hiroshi Takekawa <takekawa@sr3.t.u-tokyo.ac.jp> - Configure fixes  
Holger Trapp <Holger.Trapp@Informatik.TU-Chemnitz.DE> - KRB4/AFS config patch  
IWAMURO Motonori <iwa@mmp.fujitsu.co.jp> - bugfixes  
Jani Hakala <jahakala@cc.jyu.fi> - Patches  
Jarno Huuskonen <jhuuskon@hytti.uku.fi> - Bugfixes  
Jim Knoble <jmknoble@pobox.com> - Many patches  
Jonchen (email unknown) - the original author of PAM support of SSH  
Juergen Keil <jk@tools.de>  
- scp bugfixing  
KAMAHARA Junzo <kamahara@cc.kshosen.ac.jp> - Configure fixes  
Kees Cook <cook@cpoint.net> - scp fixes  
Kenji Miyake <kenji@miyake.org> - Configure fixes  
Kevin Cawlfieid <cawlfieid@us.ibm.com> - AIX fixes.  
Kevin O'Connor <kevin\_oconnor@standardandpoors.com> - RSAless operation  
Kevin Steves <stevesk@pobox.com> - HP support, bugfixes, improvements  
Kiyokazu SUTO <suto@ks-and-ks.ne.jp> - Bugfixes  
Larry Jones <larry.jones@sdrc.com> - Bugfixes  
Lutz Jaenicke <Lutz.Jaenicke@aet.TU-Cottbus.DE> - Bugfixes  
Marc G. Fournier <marc.fournier@acadiau.ca> - Solaris patches  
Mark D. Baushke <mdb@juniper.net> - bug fixes  
Martin Johansson <fatbob@acc.umu.se> - Linux fixes  
Mark D. Roth <roth+openssh@feep.net> - Features, bug fixes  
Mark Miller <markm@swoon.net> - Bugfixes  
Matt Richards <v2matt@btv.ibm.com> - AIX patches

Michael Steffens <michael\_steffens at hp.com> - HP-UX fixes  
Michael Stone <mstone@cs.loyola.edu> - Irix enhancements  
Nakaji Hiroyuki <nakaji@tutrp.tut.ac.jp> - Sony News-OS  
patch  
Nalin Dahyabhai <nalin.dahyabhai@pobox.com> - PAM environment patch  
Nate Itkin <nitkin@europa.com> - SunOS 4.1.x fixes  
Niels Kristian Bech Jensen <nkbj@image.dk> - Assorted patches  
Pavel Kankovsky <peak@argo.troja.mff.cuni.cz> - Security fixes  
Pavel Troller <patrol@omni.sinus.cz> - Bugfixes  
Pekka Savola <pekkas@netcore.fi> - Bugfixes  
Peter Kocks <peter.kocks@baygate.com> - Makefile fixes  
Peter Stuge <stuge@cdy.org> - mdoc2man.awk script  
Phil Hands <phil@hands.com> - Debian scripts, assorted patches  
Phil Karn <karn@ka9q.ampr.org> - Autoconf fixes  
Philippe WILLEM <Philippe.WILLEM@urssaf.fr> - Bugfixes  
Phill Camp <P.S.S.Camp@ukc.ac.uk> - login code fix  
Rip Loomis <loomisg@cist.saic.com> - Solaris package support, fixes  
Robert Dahlem <Robert.Dahlem at siemens.com> - Reliant Unix fixes  
Roumen Petrov <openssh@roumenpetrov.info> - Compile & configure fixes  
SAKAI Kiyotaka <ksakai@kso.netwk.ntt-at.co.jp> - Multiple bugfixes  
Simon Wilkinson <sxw@dcs.ed.ac.uk> - PAM fixes, Compat with MIT  
KrbV  
Solar Designer <solar@openwall.com> - many patches and technical assistance  
Svante Signell <svante.signell@telia.com> - Bugfixes  
Thomas Neumann <tom@smart.ruhr.de> - Shadow passwords  
Tim Rice <tim@multitalents.net> - Portability & SCO fixes  
Tobias Oetiker <oetiker@ee.ethz.ch> - Bugfixes  
Tom Bertelson's <tbert@abac.com> - AIX auth fixes  
Tor-Ake Fransson <torake@hotmail.com> - AIX support  
Tudor Bosman <tudorb@jm.nu> - MD5 password support  
Udo Schweigert <ust@cert.siemens.de> - ReliantUNIX support  
Wendy Palm <wendyp at cray.com> - Cray support.  
Zack Weinberg <zack@wolery.cumb.org> - GNOME askpass enhancement

## 1.71 mpfr 1.08

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```
#
These procedures come from the source code of GFun.
#
getname:=proc(yofz::function(name), y, z)
y:=op(0,yofz);
if type(y,'procedure') then error `not an unassigned name`,y fi;
z:=op(yofz)
end proc:
```

```
#
returns the smallest i such that u(n+i) appears in a recurrence
#
minindex := proc(rec,u,n)
min(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
end proc:
```

```
#
returns the largest i such that u(n+i) appears in a recurrence
#
maxindex := proc(rec,u,n)
max(op(map(op,indets(rec,'specfunc'('linear'(n),u)))))-n
end proc:
```

```
#
A recurrence of the form $a(n+d) = p(n)/q(n) a(n)$ is represented through a record:
OneTermRecurrence : record(order, numerator, denominator)
#
`type/OneTermRecurrence` := 'record(order, numerator, denominator)':
```

```

#
#checkOneTermRecurrence
Input: a recurrence rec (either with or without initial conditions).
If it has initial conditions, they are ignored.
a(n): the name of the sequence and the name of the variable.
#
Output:
#
This procedure checks that rec is a recurrence of the form $a(n+d) = p(n)/q(n) a(n)$
If the check succeeds, it returns the corresponding record. If it fails, an error is
returned.
#
checkOneTermRecurrence := proc(rec, aofn)::OneTermRecurrence;
local r, d, a, n, term1, term2, res;

getname(aofn, a, n):
if type(rec, 'set') then
 r:=select(has, rec, n);
 if nops(r)>1
 then error `invalid recurrence`, rec
 fi:
 if nops(r)=0
 then error "%1 does not appear in the recurrence", n
 fi:
 r := op(r):
else r:=rec:
fi:
if type(r,`=')
 then r:=op(1,r)-op(2,r)
fi:
if indets(r,'specfunc'('anything',a)) <> indets(r,'specfunc'('linear'(n),a))
 then error "the recurrence contains elements that are not linear in %1", n
fi:
if nops(r) <> 2
 then error "the recurrence contains %1 terms (expected 2)", nops(r)
fi:
r := subs(n=n-minindex(r, a, n), r):
d := maxindex(r, a, n):

term1 := select(has, r, a(n)):
term2 := select(has, r, a(n+d)):

res := factor(-(term1/a(n)) / (term2/a(n+d))):

Record('order'=d, 'numerator' = numer(res), 'denominator' = denom(res))
end proc:

```



```

#
my_factors factorizes p the same way as factors(p) would do except that the constant part is computed
differently. We assume here that p has integer coefficients, and we want to factorize it over polynomials
with integer coefficients. my_factors ensures that the factors have integer coefficients.
#
my_factors := proc(p)
local L, c, fact, i, my_c, my_fact, q;
L := factors(p);
c := L[1]: fact := L[2]:
my_c := c: my_fact := []:
for i from 1 to nops(fact) do
q := denom(fact[i][1]):
my_fact := [op(my_fact), [fact[i][1]*q, fact[i][2]]]:
my_c := my_c / (q^fact[i][2]):
od:
[my_c, my_fact]:
end proc:

#
This procedure decomposes a one-term recurrence with the following form:
$a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)$
#
Known issue: this procedure assumes that the only variables involved are
n and x with their usual meaning.
#
decomposeOneTermRecurrence := proc(formalRec::OneTermRecurrence, res_cste, res_s1, res_s2, res_p, res_q)
local p, q, cste, s1, s2, d, L, i, tmp, exponent, r, polyring;
p := formalRec:-numerator:
q := formalRec:-denominator:
d := formalRec:-order:
s1 := 1:
L := op(2,my_factors(p)): # L contains the non trivial factors of p
for i from 1 to nops(L) do
tmp := L[i][1]: exponent := L[i][2]:
r := gcd(tmp^exponent, subs(n=n-d, q)):
p := quo(p,r,n): q := quo(q, subs(n=n+d, r),n): s1 := s1 * r:
od:

s2 := 1:
L := op(2,my_factors(p)): # L contains the *remaining* non trivial factors of p
for i from 1 to nops(L) do
tmp := L[i][1]: exponent := L[i][2]:
r := gcd(tmp^exponent, subs(n=n+d, q)):
p := quo(p, r, n): q := quo(q, subs(n=n-d, r), n): s2 := s2 * r:
od:

```

```

Finally we look for the constant part (with respect to n) of p/q
cste := op(1, my_factors(p))/op(1, my_factors(q)):
p := p/op(1, my_factors(p)): q :=
q/op(1, my_factors(q)):
polyring := RegularChains[PolynomialRing]([n,x]):
L := op(2, my_factors(p)):
for i from 1 to nops(L) do
 if RegularChains[MainVariable](L[i][1], polyring) = x
 then cste := cste * L[i][1]^L[i][2]: p := quo(p,L[i][1]^L[i][2],x):
 fi:
od:
L := op(2, my_factors(q)):
for i from 1 to nops(L) do
 if RegularChains[MainVariable](L[i][1], polyring) = x
 then cste := cste / L[i][1]^L[i][2]: q := quo(q,L[i][1]^L[i][2],x):
 fi:
od:

res_cste := cste;
res_s1 := s1;
res_s2 := s2;
res_p := simplify(p);
res_q := simplify(q);
end proc:

#
#coeffrecToTermsrec
Input: a linear recurrence rec (either with or without initial conditions).
a(n): the name of the sequence and the name of the variable.
x: a value or symbolic name
#
Output:
The recurrence satisfied by a(n)*x^n. Note that this recurrence is also denoted by a(n).
If initial conditions were provided, corresponding initial conditions are computed.
#
coeffrecToTermsrec
:= proc(rec, aofn, x)
local a,n,L,r,cond,d,i,tmp,c,res;
getname(aofn, a, n):
if type(rec, 'set') then
 L := selectremove(has, rec, n):
 r := L[1]:
 if nops(r)>1
 then error `invalid recurrence`, rec
 fi:
 if nops(r)=0

```

```

 then error "%1 does not appear in the recurrence", n
 fi:
 r := op(r):
 cond := L[2]:
else r := rec:
 fi:
 d := maxindex(r, a, n):
 L := indets(r,'specfunc'('linear'(n),a)):
 if indets(r,'specfunc'('anything',a)) <> L
 then error "the recurrence contains elements that are not linear in %1", n
 fi:
 L := map(op, L):
 for i from 1 to nops(L) do
 r := subs(a(op(i,L))=a(op(i,L))*x^(d-op(i,L)+n), r):
 od:
 if cond<>'cond' then
 c := {}:
 for i from 1 to nops(cond) do
 tmp := op(i, cond): # tmp should have the form 'a(k) = cste'
 if not type(tmp,'=') then error "Invalid initial condition: %1", tmp: fi:
 L := selectremove(has, {op(tmp)}, a):
 if (nops(L[1]) <> 1) or (nops(L[2])<>1)
 then error "Invalid initial condition: %1", tmp:
 fi:
 tmp := op(1, L[1]): # tmp has the form 'a(k)'
 c := {op(c), tmp = op(1, L[2])*x^op(tmp)}:
 od:
 res := {r, op(c)}:
 else res := r:
 fi:
 res:
end proc:

#
This procedure removes the conditions of the form a(k)=0 from the initial conditions of rec
It returns a list L = [L1, L2, ...] where Li = [k, expr] representing the condition a(k)=expr.
Moreover, it asserts that the Li are ordered by increasing k.
#
removeTrivialConditions := proc(rec, aofn)
 local a,n,i,L,tmp,c,cond,k:
 getname(aofn, a, n):
 if not type(rec, 'set') then
 error "%1 is not a recurrence with initial conditions", rec
 else
 L := selectremove(has, rec, n):
 cond := L[2]:
 if nops(cond)=0

```

```

 then error "%1 does not contain initial conditions", rec
 fi:
fi:
c := []:
for i from 1 to nops(cond) do
 tmp := op(i, cond); # tmp should have the form 'a(k) = cste'
 if not type(tmp, '='=) then error
"Invalid initial condition: %1", tmp: fi:
 L := selectremove(has, {op(tmp)}, a):
 if (nops(L[1]) <> 1) or (nops(L[2]) <> 1)
 then error "Invalid initial condition: %1", tmp:
 fi:
 if op(1, L[2]) <> 0 then c := [op(c), [op(op(1, L[1])), op(1, L[2])]]: fi:
od:
We check that the conditions are ordered by increasing k.
if (nops(c)=0) then return c: fi:
k := c[1][1]:
for i from 2 to nops(c) do
 if (c[i][1] <= k)
 then error "Unexpected error in removeTrivialConditions: the conditions are not correctly ordered (%1)\n", c
 else k := c[i][1]
 fi:
od:
c:
end proc:

```

```

#
findFixpointOfDifferences: takes a set L of integer and returns the smallest set S
containing L and such that for each i, S[i]-S[i-1] \in S
findFixpointOfDifferences := proc(L)
 local res, i:
 res := L:
 for i from 2 to nops(L) do
 res := { op(res), L[i]-L[i-1] }:
 od:
 if (res=L) then return res else return findFixpointOfDifferences(res) fi:
end proc:

```

```

#
error_counter functions
 allows one to follow the accumulation of errors in each variable.
an error_counter is a list of the form [[var1, c1], [var2, c2], ...]
where the vari are variable names and the ci indicate how many approximation errors
are accumulated in vari.
#

```

```

#
This procedure initializes the counter associated with variable var to 1 (and creates it if needed.)
It returns an up-to-date error_counter.
init_error_counter := proc (var, error_counter)
 local i, res:
 res := error_counter:
 for i from 1 to nops(res) do
 if (res[i][1]=var)
 then res[i][2] := 1:
 return res:
 fi
 od:
 res := [op(res), [var, 1]]:
end:

```

```

#
This procedure adds a given number to the counter associated with variable var.
It returns an up-to-date error_counter.
add_to_error_counter := proc (var, n, error_counter)
 local i, res:
 res := error_counter:
 for i from 1 to nops(res) do
 if (res[i][1]=var)
 then res[i][2] := res[i][2]+n:
 return res:
 fi
 od:

 res := [op(res), [var, n]]:
end proc:

```

```

#
This procedure sets the value of the counter associated with variable var.
It returns an up-to-date error_counter.
set_error_counter := proc(var, n, error_counter)
 local i,err:
 err := error_counter:
 for i from 1 to nops(err) do
 if (err[i][1]=var)
 then err[i][2] := n:
 return err:
 fi
 od:
 err := [op(err), [var, n]]:
end proc:

```

```

#

```

```

This procedure initializes the counter associated to the multiplication of var2 and var3,
putting the result in variable var1.
It returns an up-to-date error_counter.
error_counter_of_a_multiplication := proc (var1, var2, var3, error_counter)
local i, res, c2, c3:
c2 := 0: c3 := 0:
for i from 1 to nops(error_counter) do
 if (error_counter[i][1]=var2) then c2 := error_counter[i][2] fi:
 if (error_counter[i][1]=var3) then c3 := error_counter[i][2] fi:
 if (error_counter[i][1]=var1)
 then
 res := [op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter))]]
]
 fi:
od:
if (res = 'res') then res := error_counter fi:
res := [op(res), [var1, c2+c3+1]]:
end:

#
Copies the error counter of var2 into var1
error_counter_on_copy := proc(var1, var2, error_counter)
local i, err, c2:
c2 := 0:
for i from 1 to nops(error_counter) do
 if (error_counter[i][1] = var2) then c2 := error_counter[i][2] fi:
 if (error_counter[i][1] = var1)
 then
 err := [op(error_counter[1..i-1]), op(error_counter[i+1..nops(error_counter))]]]
 fi:
od:
if (err = 'err') then err := error_counter fi:
if (c2 <> 0) then err := [op(res), [var1, c2]] fi:
end proc:

#
Returns the value of the error counter associated to a variable
find_in_error_counter := proc(var, error_counter)
local i:
for i from 1 to nops(error_counter) do
 if (error_counter[i][1] = var) then return error_counter[i][2] fi:
od:
return 0:
end proc:

#
generate_multiply_rational(fd, var1, var2, r, error_counter, indent) generates code for performing

```

```

#
var1 = var2*r in MPFR
fd is the file descriptor in which the code shall be produced.
var1 and var2 are strings representing variable names. r is a Maple rational number.
error_counter is an error_counter (as described above).
indent is an optional argument. It is a string used to correctly indent the code. It is prefixed to any
generated line. Hence, if indent=" ", the generated code will be indented by 2 spaces.
An up-to-date error_counter is returned.
generate_multiply_rational := proc(fd, var1, var2, r, error_counter, indent:= "")
local p,q,err:
err := error_counter:
if (whattype(r)<>'fraction') and (whattype(r)<>'integer')
then error "generate_multiply_rational used with non rational number %1", r: fi:
if (abs(r)=1)
then
if (var1=var2)
then
if (r<>1) then fprintf(fd, "%sMPFR_CHANGE_SIGN (%s);\n", indent, var1) fi:
return err:
else
if (r=1)
then fprintf(fd, "%smpfr_set (%s, %s, MPFR_RNDN);\n", indent, var1,
var2):
else fprintf(fd, "%smpfr_neg (%s, %s, MPFR_RNDN);\n", indent, var1, var2):
fi:
return error_counter_on_copy(var1, var2, err):
fi
fi:
Now, r is a rational number different from 1.
p := numer(r): q := denom(r):
if (abs(p)<>1)
then
fprintf(fd, "%smpfr_mul_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p):
err := error_counter_of_a_multiplication(var1, var2, "", err):
if (q<>1)
then
fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var1, q):
err := error_counter_of_a_multiplication(var1, var1, "", err):
fi:
else
fprintf(fd, "%smpfr_div_si (%s, %s, %d, MPFR_RNDN);\n", indent, var1, var2, p*q):
err := error_counter_of_a_multiplication(var1, var2, "", err):
fi:
return err:
end proc:

#

```

```

generate_multiply_poly is the same as generate_multiply_rational but when r is a rational fraction.
The fraction r must have the form p/q where p and q are polynomials with integer coefficients.
#
Moreover, the gcd of the coefficients of p must be 1. Idem for q.
The procedure returned a list [m, d, err] where m is the set of indices k such that
a mpfr_mul_sik function is needed and idem for d with mpfr_div_sik.
err is an up-to-date error counter.
generate_multiply_poly := proc(fd, var1, var2, r, error_counter, indent:= "")
local p,q,Lp,Lq,n,i,j,var, required_mulsi, required_divsi, err:
err := error_counter:
required_mulsi := {}:
required_divsi := {}:
p := numer(r): q := denom(r):
Lp := my_factors(p): Lq := my_factors(q):
if (Lp[1] <> 1)
then error "generate_multiply_poly: an integer can be factored out of %1", p:
fi:
if (Lq[1] <> 1)
then error "generate_multiply_poly: an integer can be factored out of %1", q:
fi:
Lp := Lp[2]: Lq := Lq[2]:
var := var2:
if (nops(Lp) <> 0)
then
n := 0:
for i from 1 to nops(Lp) do n := n + Lp[i][2] od:
if (n=1)
then
fprintf(fd, "%smpfr_mul_si (%s, %s", indent, var1, var):
else

required_mulsi := { op(required_mulsi), n }:
fprintf(fd, "%smpfr_mul_si%d (%s, %s", indent, n, var1, var):
fi:
for i from 1 to nops(Lp) do
for j from 1 to Lp[i][2] do
fprintf(fd, ", %a", Lp[i][1]):
od:
od:
fprintf(fd, ", MPFR_RNDN);\n"):
err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
var := var1:
fi:
if (nops(Lq) <> 0)
then
n := 0:
for i from 1 to nops(Lq) do n := n + Lq[i][2] od:
if (n=1)

```



```

then
 fprintf(fd, "%smpfr_div_si (%s, %s", indent, var1, var):
else
 required_divsi := { op(required_divsi), n }:
 fprintf(fd, "%smpfr_div_si%d (%s, %s", indent, n, var1, var)
fi:
for i from 1 to nops(Lq) do
 for j from 1 to Lq[i][2] do
 fprintf(fd, ", %a", Lq[i][1])
 od:
od:
fprintf(fd, ", MPFR_RNDN);\n"):
err := set_error_counter(var1, n+find_in_error_counter(var, err) , err):
var := var1:
fi:
if (var1 <> var) then
 fprintf(fd, "%smpfr_set
(%s, %s, MPFR_RNDN);\n", indent, var1, var):
 err := set_error_counter(var1, find_in_error_counter(var, err) , err):
fi:
return [required_mulsi, required_divsi, err]:
end proc:

#
This function generates the code of a procedure mpfr_mul_uin or mpfr_div_uin
#
generate_muldivsin := proc(op, n)
 local i, var:
 if ((op <> "mul") and (op <> "div"))
 then error "Invalid argument to generate_muldivuin (%1). Must be 'mul' or 'div'", op
 fi:
 if (whattype(n) <> 'integer')
 then error "Invalid argument to generate_muldivuin (%1). Must be an integer.", n
 fi:

 if (op="mul") then var := "MUL" else var := "DIV" fi:

 printf("__MPFR_DECLSPEC void mpfr_div_si%d _MPFR_PROTO((mpfr_ptr, mpfr_srcptr,\n", n):
 for i from n to 2 by -2 do
 printf(" long int, long int,\n"):
 od:
 if (i=1)
 then
 printf(" long int, mpfr_rnd_t);\n"):
 else
 printf("

```

```

 mpfr_rnd_t));\n")
fi:

printf("\n\n\n"):
printf("void\n"):
printf("mpfr_%s_si%d (mpfr_ptr y, mpfr_srcptr x,\n", op, n):
for i from n to 2 by -2 do
 printf(" long int v%d, long int v%d,\n", n-i+1, n-i+2):
od:
if (i=1)
then
 printf(" long int v%d, mpfr_rnd_t mode)\n", n):
else
 printf(" mpfr_rnd_t mode)\n")
fi:
printf("{\n"):
printf(" long int acc = v1;\n"):
printf(" mpfr_set (y, x, mode);\n"):
for i from 2 to n do
 printf(" MPFR_ACC_OR_%s (v%d);\n", var, i):
od:
printf(" mpfr_%s_si (y, y, acc, mode);\n", op):
printf("}\n"):
return:
end proc:

```

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section 10

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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.

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

```
<program> Copyright (C) <year> <name of author>
This program 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, your program's commands



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# convert from Gonnet's FPAccuracy data sets to mpfr format  
# <http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z>

# 1 - cut the lines from (say) C/acos.c, remove the 3rd (eps) field,  
# replace the commata ',' by spaces, and remove the final '};'  
# (hint: cut -d" " -f1,2,4,5 /tmp/acos.c > /tmp/acos2.c)  
# 2 - edit the infile and outfile lines below, and run  
# maple -q < gonnet.mpl

infile := "/tmp/acos2.c":  
outfile := "acos":

##### don't edit below this line #####

```
foo := proc(arg_m, val_m, arg_e, val_e, fp)
 fprintf (fp, "53 53 n ", 53);
 to_hex(arg_m, arg_e, fp);
 fprintf (fp, " ");
 # warning: Gonnet stores -val_e
 to_hex(val_m, -val_e, fp);
 fprintf (fp, "\n");
end;
```

```
to_hex := proc(m, e, fp)
 if m<0 then fprintf (fp, "-") fi;
 fprintf (fp, "0x%sp%d", convert(abs(m),hex), e);
end;
```

```
copyright := proc(fp)
 fprintf (fp, "# This file was generated from the FPAccuracy package\n#
http://www.inf.ethz.ch/personal/gonnet/FPAccuracy/all.tar.Z:\n#
 Copyright (C) Gaston H. Gonnet\n# This program is free software; you can redistribute it and/or\n# modify it under
 the terms of the GNU General Public License\n# as published by the Free Software Foundation; either version 2\n#
 of the License, or (at your option) any later version.\n# This program is distributed in the hope that it will be
```

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fp := fopen (outfile, WRITE):

l := readdata(infile, integer, 4):

copyright(fp):

for e in l do foo(op(e), fp) od:

fclose (fp);

quit;

read("metaMPFR\_common.mpl"):

FUNCTION\_SERIES := 0:

FUNCTION\_SERIES\_RATIONAL := %+1:

CONSTANT\_SERIES := %+1:

#####

##### We can now generate the code #####

#####

# This procedure generate code for a straightforward evaluation of the series

# corresponding to a recurrence.

# rec is a recurrence with initial conditions

# type can take three values, depending on which series should be evaluated:

# FUNCTION\_SERIES -> produces code for evaluating  $\sum a(i) \cdot x^i$

# FUNCTION\_SERIES\_RATIONAL -> produces code for evaluating  $\sum a(i) \cdot (p/q)^i$

# CONSTANT\_SERIES -> produces code for evaluating  $\sum a(i)$

# name is the name the should be given to the produced procedure.

# fofx is an optional parameter. It is the function being implemented.

# -> if provided, this argument will be used to (heuristically)

find the limits

# of the function at  $\pm\infty$  and find its asymptotical behavior.

# **\*IMPORTANT NOTE\***: it must be a function of the variable 'x'.

# Moreover, neither `_f` nor `x` shall be assigned at the time of

# calling the function

#

generateStraightforwardAlgo := proc(rec, aofn, type, name, filename, fofx := \_f(x))

local a, b, n, fd, init\_cond, nc, d, exponents, formalRec, c, s1, s2, p, q, hardconstant, f0, i0, ri0, i, j, var, var1, var2, var3, guard\_bits, required\_mulsi, required\_divsi, temp, error\_counter, error\_in\_loop, maxofti, additional\_error:

getname(aofn, a, n):

required\_mulsi := {}:

required\_divsi := {}:

```

fd := fopen(filename, WRITE);

We check that we have a recurrence of the form $a(n+d)=r(n)*a(n)$
and we extract its canonical form:
$a(n+d) = c * s1(n)/s1(n+d) * s2(n+d)/s2(n) * p(n)/q(n) * a(n)$
#
formalRec := checkOneTermRecurrence(rec, a(n));
decomposeOneTermRecurrence(formalRec, c,
s1, s2, p, q);
d := formalRec:-order:

We keep only non-trivial initial conditions
init_cond := removeTrivialConditions(rec, a(n));
nc := nops(init_cond);
exponents := {1, d};
for i from 1 to nc do
 exponents := { op(exponents), init_cond[i][1] }
od:
exponents := findFixpointOfDifferences(exponents);
exponents := exponents minus {0}:

error_counter := [];

fprintf(fd, "/* Evaluation by a straightforward algorithm */\n");
fprintf(fd, "/* Code automatically generated by metaMPFR. */\n");

fprintf(fd, "static int\n");
if (type=FUNCTION_SERIES)
 then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_srcptr x, mpfr_rnd_t rnd)\n", name);
elif (type=FUNCTION_SERIES_RATIONAL)
 then fprintf(fd, "mpfr_%a (mpfr_ptr res, int u, int v, mpfr_rnd_t rnd)\n", name);
elif (type=CONSTANT_SERIES)
 then fprintf(fd, "mpfr_%a (mpfr_ptr res, mpfr_rnd_t rnd)\n", name);
fi:
fprintf(fd, "{\n");

#####
#####
Declarations #####
#####

fprintf(fd, " MPFR_ZIV_DECL (loop);\n");
fprintf(fd, " MPFR_SAVE_EXPO_DECL (expo);\n");
fprintf(fd, " mpfr_prec_t wprec; /* working precision */\n");
fprintf(fd, " mpfr_prec_t prec; /* target precision */\n");
fprintf(fd, " mpfr_prec_t err; /* used to estimate the evaluation error */\n");
fprintf(fd, " mpfr_prec_t correctBits; /* estimates the number of correct bits*/\n");

```

```

fprintf(fd, " unsigned long int k;\n");
fprintf(fd, " unsigned long int conditionNumber; /* condition number of the series */\n");
fprintf(fd, " unsigned assumed_exponent; /* used as a lowerbound of -EXP(f(x)) */\n");
fprintf(fd, " int r; /* returned ternary value */\n");
fprintf(fd, " mpfr_t s; /* used to store the partial sum */\n");

if (whattype(c) = 'fraction') or (whattype(c) = 'integer')
 then hardconstant := 0
 else hardconstant := 1
fi:
if (type=FUNCTION_SERIES) then hardconstant := 1 fi:

if (hardconstant=1)
then
 if (type=CONSTANT_SERIES)
 then fprintf(fd, " mpfr_t x%d; /* used to store %a */\n", d, c):
 elif (type=FUNCTION_SERIES_RATIONAL)
 then fprintf(fd, " mpfr_t x%d; /* used to store %a */\n", d, c*(u/v)^d):
 elif (type=FUNCTION_SERIES)
 then fprintf(fd, " mpfr_t x%d; /* used to store %a */\n", d, c*x^d):
 fi:
fi:

if (type=FUNCTION_SERIES)
then
 fprintf(fd, " mpfr_t tmp;\n");
 if (nops(exponents)-1 >= 1) then fprintf(fd, " mpfr_t ") fi:
 for i from 1 to nops(exponents)-1 do
 fprintf(fd, "x%d", exponents[i]):
 if (i<nops(exponents)-1) then fprintf(fd, ", ") else fprintf(fd, "; /* used to store x^i */\n") fi
 od:
fi:

fprintf(fd, " mpfr_t ");
for i from 1 to nc do
 fprintf(fd, "tip%d", init_cond[i][1]):
 if (i<nc) then fprintf(fd, ", ") else fprintf(fd, "; /* used to store successive values of t_i */\n") fi:
od:
fprintf(fd, " int "):
for i from 1 to nc do
 fprintf(fd, "test%d", init_cond[i][1]):
 if (i<nc) then fprintf(fd, ", ") else fprintf(fd, ";\n") fi:
od:
fprintf(fd, " int global_test; /* used to test when the sum can be stopped */):

fprintf(fd, "\n");
fprintf(fd, " /* Logging */\n");
if (type=FUNCTION_SERIES)

```

```

 then fprintf(fd, " MPFR_LOG_FUNC ((\\"x[%%#R]=%%R rnd=%%d\\", x, x, rnd), (\\"res[%%#R]=%%R\\", res,
res));\n\n")
 elif (type=FUNCTION_SERIES_RATIONAL)
 then fprintf(fd, " MPFR_LOG_FUNC ((\\"x=u/v with u=%%d and v=%%d, rnd=%%d\\", u, v, rnd),
(\\"res[%%#R]=%%R\\", res, res));\n\n")
 else fprintf(fd, " MPFR_LOG_FUNC ((\\"rnd=%%d\\", rnd), (\\"res[%%#R]=%%R\\", res, res));\n\n")
fi:

```

```

#####
Special cases
#####

```

```

if ((type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL))
then
 fprintf(fd, " /* Special cases */\n"):

```

```

 if (type=FUNCTION_SERIES)
 then fprintf(fd, " if (MPFR_UNLIKELY (MPFR_IS_NAN (x)))\n")
 else fprintf(fd, " if (MPFR_UNLIKELY (v==0))\n")
 fi:
 fprintf(fd, " {\n"):
 fprintf(fd, " MPFR_SET_NAN (res);\n"):
 fprintf(fd, " MPFR_RET_NAN;\n"):
 fprintf(fd, " }\n"):

```

```

if (init_cond[1][1] > 0) then f0 := 0 else f0 := init_cond[1][2] fi:
if (type=FUNCTION_SERIES)
 then fprintf(fd, " if (MPFR_UNLIKELY (MPFR_IS_ZERO (x)))\n")
 else fprintf(fd, " if (MPFR_UNLIKELY (u==0))\n")
fi:
if (whattype(f0) = 'integer')
then
 fprintf(fd, " {\n"):
 fprintf(fd, " return mpfr_set_si (res, %a, rnd);\n", f0):
 fprintf(fd, " }\n")
else
 printf("You need to provide a function mpfr_%%a0(mpfr_t, mpfr_rnd_t) that evaluates %a with correct
rounding\n",
name, f0):
 fprintf(fd, " {\n"):
 fprintf(fd, " return mpfr_%%a0 (res, rnd);\n", name):
 fprintf(fd, " }\n")
fi:

```

```

if (type=FUNCTION_SERIES)
then
 fprintf(fd, " if (MPFR_UNLIKELY (MPFR_IS_INF (x)))\n"):

```

```

fprintf(fd, " {\n"):
for i from -1 to 1 by 2 do # Trick to handle both -oo and +oo
 if (i<0)
 then fprintf(fd, " if (MPFR_IS_NEG (x))\n"):
 else fprintf(fd, " else\n")
 fi:
 fprintf(fd, " {\n"):
 if (i<0) then f0 := "m" else f0 := "p" fi:
 if (fofx <> _f(x))
 then
 f0 := limit(fofx, x=i*infinity):
 if (whattype(f0)='integer')
 then fprintf(fd, " return mpfr_set_si (res, %a, rnd);\n", f0):
 elif (f0 = infinity) or (f0 = -infinity)
 then
 fprintf(fd, " MPFR_SET_INF(res);\n"):
 if (f0>0)
 then fprintf(fd, " MPFR_SET_POS(res);\n")
 else fprintf(fd,
" MPFR_SET_NEG(res);\n")
 fi:
 fprintf(fd, " MPFR_RET(0);\n"):
 else
 if (i<0) then f0 := "m" else f0 := "p" fi:
 fi:
 fi:
 if ((f0 = "p") or (f0 = "m"))
 then
 printf("You need to provide a function mpfr_%a%sinf(mpfr_t, mpfr_rnd_t) that evaluates lim(f(x), x=", name,
f0):
 if (f0 = "m") then printf("-") fi:
 printf("inf) with correct rounding.\n"):
 fprintf(fd, " return mpfr_%a%sinf (res, rnd);\n", name, f0)
 fi:
 fprintf(fd, " }\n")
od:
fprintf(fd, " }\n")
fi:
fi:

#####
Precomputations
#####

fprintf(fd, "\n"):
fprintf(fd, " /* Save current exponents range */\n"):
fprintf(fd, " MPFR_SAVE_EXPO_MARK (expo);\n\n"):

```

```

if ((type=FUNCTION_SERIES) or (type=FUNCTION_SERIES_RATIONAL)
)
then fprintf(fd, " /* FIXME: special case for large values of |x| ? *\n\n")
fi:

Note : prec is the value such that we will try to compute an approximation
with relative error smaller than $2^{-(1-prec)}$.
Several things may happen:
1) We do not achieve the intended error: this is because we badly estimated the exponent of the result
2) We achieve the error, but it is not sufficient to decide correct rounding (Ziv's bad case)
Against 1), we can try to make our estimate of the exponent better with any heuristic.
Against 2), we can consider more guard bits. 11 guard bits seem a good value for the beginning
(statistically, we expect to fail in less than 0.1 % of the cases)
wprec is the precision used during the computation, in order to ensure the final relative error $2^{-(1-prec)}$
#
fprintf(fd, " /* We begin with 11 guard bits *\n");
fprintf(fd, " prec = MPFR_PREC (res) + 11;\n");
fprintf(fd, " MPFR_ZIV_INIT
(loop, prec);\n");

TODO: the value here can be chosen completely heuristically. We could do something much better
when fofx is known by using asympt(fofx, x, 1). A clean implementation appears to be complex though.
We must catch errors if the development does not exist (e.g. AiryAi(-x));
We must find a separation after which the asymptotic behavior is valid (e.g. $x > 1$)
printf("The code contains a variable assumed_exponent arbitrarily set to 10. You can put any value heuristically
chosen. The closer it is to $-\log_2(|f(x)|)$, the better it is.\n");
fprintf(fd, " assumed_exponent = 10; /* TIP: You can put any value heuristically chosen. The closer it is to -
log_2(|f(x)|), the better it is *\n");

TODO: find a way of putting a rigorous value here.
This value *must* be rigorous: the safety of the implementation relies on it.
Precisely, we need to have $\sum(|a(i)*x^i|) \leq 2^{\text{conditionNumber}}$
fprintf(fd, " conditionNumber = xxx; /* FIXME: set a value such that
sum(|a(i)*x^i|) <= 2^conditionNumber *\n");
printf("The code contains a variable conditionNumber that you must manually set to a suitable value, in order to
ensure that $\sum_{i=0}^{\infty} |a(i)*x^i| \leq 2^{\text{conditionNumber}}$ \n");
fprintf(fd, " wprec = prec + ERRORANALYSISPREC + conditionNumber + assumed_exponent;\n");

#####
Initialisations
#####

if (hardconstant=1)
then
 fprintf(fd, " mpfr_init (x%d);\n", d):
fi:

```

```

if (type = FUNCTION_SERIES)
then
 fprintf(fd, " mpfr_init (tmp);\n");
 for i from 1 to nops(exponents)-1 do
 fprintf(fd, " mpfr_init (x%d);\n", exponents[i])
 od:
fi:

for i from 1 to nc do
 fprintf(fd, " mpfr_init (tip%d);\n", init_cond[i][1])
od:
fprintf(fd, " mpfr_init (s);\n\n");

#####
Ziv' loop: setting the precision
#####
#####

fprintf(fd, " /* ZIV' loop */\n");
fprintf(fd, " for (;;)\n");
fprintf(fd, " {\n");

fprintf(fd, " MPFR_LOG_MSG ((\"Working precision: %d\\n\", wprec, 0));\n\n");
if (hardconstant=1)
then
 fprintf(fd, " mpfr_set_prec (x%d, wprec);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
 fprintf(fd, " mpfr_set_prec (tmp, wprec);\n");
 fprintf(fd, " if(mpfr_get_prec (x) > wprec)\n");
 fprintf(fd, " mpfr_set_prec (x1, wprec);\n");
 fprintf(fd, " else\n");
 fprintf(fd, " mpfr_set_prec (x1, mpfr_get_prec (x));\n");
 for i from 2 to nops(exponents)-1 do
 fprintf(fd, " mpfr_set_prec (x%d, wprec);\n", exponents[i])
 od:
fi:

for i from 1 to nc do
 fprintf(fd, " mpfr_set_prec (tip%d, wprec);\n", init_cond[i][1])
od:
fprintf(fd, " mpfr_set_prec (s, wprec);\n\n");

#####

```



```

Ziv' loop: initial conditions
#####

fprintf(fd, " mpfr_set_ui (s, 0, MPFR_RNDN);\n");

if (type = FUNCTION_SERIES)
then
 fprintf(fd, " mpfr_set (x1, x, MPFR_RNDN);\n");
 error_counter := init_error_counter("x1", error_counter):
 for i from 2 to nops(exponents) do
 fprintf(fd, " mpfr_mul (x%d, x%d, x%d, MPFR_RNDN);\n", exponents[i], exponents[i-1], exponents[i]-
exponents[i-1]):
 var1 := sprintf("x%d", exponents[i]):
 var2 := sprintf("x%d", exponents[i-1]):
 var3 := sprintf("x%d", exponents[i]-exponents[i-1]):
 error_counter := error_counter_of_a_multiplication(var1, var2, var3, error_counter):
 od:
fi:

for i from 1 to nc do
 i0 := init_cond[i][1]:
 ri0 := init_cond[i][2]: # We implement t_{i0} <- ri0
 if (whattype(ri0)='integer') or (whattype(ri0)='fraction')
 then
 if (type = FUNCTION_SERIES) and (i0 <> 0)
 then
 var
:= sprintf(" mpfr_mul_si (tip%d, x%d, ", i0, i0):
 var1 := sprintf("tip%d", i0):
 var2 := sprintf("x%d", i0):
 error_counter := error_counter_of_a_multiplication(var1, var2, "", error_counter):
 else
 var := sprintf(" mpfr_set_si (tip%d, ", i0):
 var1 := sprintf("tip%d", i0):
 error_counter := init_error_counter(var1, error_counter):
 fi:
 fprintf(fd, "%s%d, MPFR_RNDN);\n", var, numer(ri0)):
 if (whattype(ri0)='fraction')
 then
 fprintf(fd, " mpfr_div_si (tip%d, tip%d, %d, MPFR_RNDN);\n", i0, i0, denom(ri0)):
 var1 := sprintf("tip%d", i0):
 error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
 fi:
 else
 printf("You need to provide a function mpfr_%a%d (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, i0, ri0):
 fprintf(fd, " mpfr_%a%d (tip%d, MPFR_RNDN);\n", name, i0, i0):
 var1 := sprintf("tip%d",

```

```

i0):
 error_counter := init_error_counter(var1, error_counter):
 if (type = FUNCTION_SERIES) and (i0 <> 0)
 then
 fprintf(fd, " mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, i0):
 var1 := sprintf("tip%d", i0):
 var2 := sprintf("x%d", i0):
 error_counter := error_counter_of_a_multiplication(var1, var1, var2, error_counter):
 fi:
fi:

if (type = FUNCTION_SERIES_RATIONAL) and (i0 <> 0)
then
 var1 := sprintf("tip%d", i0):
 if (i0 = 1)
 then fprintf(fd, " mpfr_mul_si (tip%d, tip%d, ", i0, i0):
 else
 required_mulsi := { op(required_mulsi), i0 }:
 fprintf(fd, " mpfr_mul_si%d (tip%d, tip%d, ", i0, i0, i0):
 fi:
 for j from 1 to i0 do
 fprintf(fd, "u, "):
 error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
 od:
 fprintf(fd, "MPFR_RNDN);\n"):
 if (i0 = 1)
 then fprintf(fd, " mpfr_div_si (tip%d,
tip%d, ", i0, i0):
 else
 required_divsi := { op(required_divsi), i0 }:
 fprintf(fd, " mpfr_div_si%d (tip%d, tip%d, ", i0, i0, i0):
 fi:
 for j from 1 to i0 do
 fprintf(fd, "v, "):
 error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
 od:
 fprintf(fd, "MPFR_RNDN);\n"):
fi:

 fprintf(fd, " mpfr_add (s, s, tip%d, MPFR_RNDN);\n\n", i0):
od:

if (whattype(c) = 'integer') or (whattype(c) = 'fraction')
then
 if (type = FUNCTION_SERIES) and (c = -1)
 then
 fprintf(fd, " MPFR_CHANGE_SIGN (x%d);\n", d):
 elif (type = FUNCTION_SERIES) and (c <> 1)

```

```

then
 fprintf(fd, " mpfr_mul_si (x%d, x%d, %d, MPFR_RNDN);\n", d, d, numer(c)):
 var1 := sprintf("x%d", d):
 error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
 if (whattype(c) = 'fraction')
 then
 fprintf(fd, " mpfr_div_si (x%d, x%d, %d, MPFR_RNDN);\n",
d, d, denom(c)):
 error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
 fi:
fi:
else
 printf("You need to provide a function mpfr_%a_cste (mpfr_t, mpfr_rnd_t) that evaluates %a with faithful
rounding.\n", name, c):
 if (type = CONSTANT_SERIES)
 then
 fprintf(fd, " mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
 var1 := sprintf("x%d", d):
 error_counter := init_error_counter(var1, error_counter):
 elif (type = FUNCTION_SERIES) then
 fprintf(fd, " mpfr_%a_cste (tmp, MPFR_RNDN);\n", name):
 error_counter := init_error_counter("tmp", error_counter):
 fprintf(fd, " mpfr_mul (x%d, tmp, x%d, MPFR_RNDN);\n", d, d):
 var1 := sprintf("x%d", d):
 error_counter := error_counter_of_a_multiplication(var1, "tmp", var1, error_counter):
 elif (type = FUNCTION_SERIES_RATIONAL) then
 fprintf(fd, " mpfr_%a_cste (x%d, MPFR_RNDN);\n", name, d):
 var1 := sprintf("x%d",
d):
 error_counter := init_error_counter(var1, error_counter):
 if (d = 1)
 then fprintf(fd, " mpfr_mul_si (x%d, x%d, ", d, d):
 else
 required_mulsi := { op(required_mulsi), d }:
 fprintf(fd, " mpfr_mul_si%d (x%d, x%d, ", d, d, d):
 fi:
 for j from 1 to d do
 fprintf(fd, "u, "):
 error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter):
 od:
 fprintf(fd, "MPFR_RNDN);\n"):
 var1 := sprintf("x%d", d):
 if (d = 1)
 then fprintf(fd, " mpfr_div_si (x%d, x%d, ", d, d):
 else
 required_divsi := { op(required_divsi), d }:
 fprintf(fd, " mpfr_div_si%d (x%d, x%d, ", d, d, d):
 fi:

```

```

for j from 1 to d do
 fprintf(fd, "v, ");
 error_counter := error_counter_of_a_multiplication(var1, var1, "", error_counter);
od:
fprintf(fd, "MPFR_RNDN);\n");
fi:
fi:

#####
#####
Ziv' loop: evaluation of the series #####
#####

fprintf(fd, "\n"):
fprintf(fd, " /* Evaluation of the series */\n"):
fprintf(fd, " k = %d;\n", d):
fprintf(fd, " for (;;)\n"):
fprintf(fd, " {\n"):
if (init_cond[1][1] > 0) then fprintf(fd, " k += %d;\n", init_cond[1][1]) fi:

for i from 1 to nc do
 error_in_loop := 0:
 i0 := init_cond[i][1]:
 if (hardconstant = 1)
 then
 fprintf(fd, " mpfr_mul (tip%d, tip%d, x%d, MPFR_RNDN);\n", i0, i0, d):
 var1 := sprintf("x%d", d):
 error_in_loop := error_in_loop + 1 + find_in_error_counter(var1, error_counter):
 else
 var := sprintf("tip%d", i0):
 temp := generate_multiply_rational(fd, var, var, c, [[var, error_in_loop]], " "):
 error_in_loop := find_in_error_counter(var, temp):
 if (type = FUNCTION_SERIES_RATIONAL)
 then
 if (d=1)
 then
 fprintf(fd,
" mpfr_mul_si (tip%d, tip%d, u, MPFR_RNDN);\n", i0, i0):
 fprintf(fd, " mpfr_div_si (tip%d, tip%d, v, MPFR_RNDN);\n", i0, i0):
error_in_loop := error_in_loop + 2:
 else
 required_mulsi := { op(required_mulsi), d }:
 fprintf(fd, " mpfr_mul_si%d (tip%d, tip%d", d, i0, i0):
 for j from 1 to d do fprintf(fd, ", u") od:
 fprintf(fd, ", MPFR_RNDN);\n"):
error_in_loop := error_in_loop + d:

 required_divsi := { op(required_divsi), d }:

```

```

 fprintf(fd, " mpfr_div_si%d (tip%d, tip%d", d, i0, i0):
 for j from 1 to d do fprintf(fd, ", v") od:
 fprintf(fd, ", MPFR_RNDN);\n"):
error_in_loop := error_in_loop + d:
 fi
fi
fi:
var := sprintf("tip%d", i0):

temp := generate_multiply_poly(fd, var, var, subs(n=k-d, p/q), [[var, error_in_loop]], " "):
required_mulsi := { op(required_mulsi), op(temp[1]) }:
required_divsi := { op(required_divsi),
op(temp[2]) }:
error_in_loop := find_in_error_counter(var, temp[3]):
temp := generate_multiply_poly(fd, "tmp", var, subs(n=k, s2/s1), [[var, error_in_loop]], " "):
required_mulsi := { op(required_mulsi), op(temp[1]) }:
required_divsi := { op(required_divsi), op(temp[2]) }:

fprintf(fd, " mpfr_add (s, s, tmp, MPFR_RNDN);\n"):

if (i<nc) then fprintf(fd, "\n k += %d;\n", init_cond[i+1][1]-i0)
else fprintf(fd, "\n k += %d;\n", d-i0)
fi:
od:

#####
Error analysis
#####

maxofti := 0: # store the maximum of the error counters of the initial conditions
for i from 1 to nc do
 var := sprintf("tip%d", init_cond[i][1]):
 if find_in_error_counter(var, error_counter) > maxofti
 then maxofti := find_in_error_counter(var, error_counter):
 fi:
od:
additional_error
:= find_in_error_counter("tmp", temp[3]) - error_in_loop:

#####
Ziv' loop: stopping criterion for the series
#####

The first neglected term is tk, so the remainder is made by
tk + t(k+d) + t(k+2d).... and the corresponding series
beginning with t(k+1), t(k+2), etc. up to t(k+d-1).

```

```

#
We have $t(k_0+d) = c \cdot s_1(k_0)/s_1(k_0+d) \cdot s_2(k_0+d)/s_2(k_0) \cdot p(k_0)/q(k_0) \cdot x^d t(k_0)$
(where $x=u/v$ or $x=1$ in cases of rational series or constant series)
So it suffices that:
forall $k_0 \geq k-d$, $|c \cdot s_1(k_0)/s_1(k_0+d) \cdot s_2(k_0+d)/s_2(k_0) \cdot p(k_0)/q(k_0) \cdot x^d| \leq 1/2$ (1)
#
If this is true, $|t_k| = |c \cdot s_1(k-d)/s_1(k) \cdot s_2(k)/s_2(k-d) \cdot p(k-d)/q(k-d) \cdot x^d t(k-d)| \leq t(k-d)/2$
This is also true for larger values of k , so we can bound $|t_k + t(k+d) + t(k+2d) + \dots|$ by $|t(k-d)|$.
And the same holds for $|t(k+1) + \dots|$, $|t(k+2) + \dots|$, etc. up to $|t(k+d-1) + \dots|$.
#
global_test depends on k and we must satisfy:
"if (global_test) then (1) holds".
#
the total remainder is bounded by $2^{nc} \cdot t_k$.

fprintf(fd, " global_test = xxx; /* FIXME: set the value in order to ensure that, whenever global_test is true,
we have: forall $k' \geq k$, $|r(k') \cdot x^d| \leq 1/2$, where r is the fraction such that $a(n)=r(n)a(n-d) \cdot x^n$):
printf("The code contains a variable global_test that you must manually set to a suitable value, in order to ensure
that when global_test is true, the following holds:\n");
printf(" forall $k' \geq k$, $|r(k') \cdot x^d| \leq 1/2$, where r is the fraction such that $a(n)=r(n)a(n-d) \cdot x^n$):
guard_bits := 1+1+ceil(log[2](nc)):
for i from 1 to nc do
 i0 := init_cond[i][1]:
 fprintf(fd, " test%d = ((!MPFR_IS_ZERO(s))\n", i0):
 fprintf(fd, " && (MPFR_IS_ZERO(tip%d)\n", i0):
 fprintf(fd, " || (MPFR_EXP(tip%d) + (mp_exp_t)prec + %d <= MPFR_EXP(s))\n", i0, guard_bits):
 fprintf(fd, ")\n"):
 fprintf(fd, ");\n"):
od:
fprintf(fd, " if (");
for i from 1 to nc do
 fprintf(fd, "test%d && ", init_cond[i][1]):
od:
fprintf(fd, "global_test)\n"):
fprintf(fd, " break;\n"):
fprintf(fd, " }\n\n"):

#####
Ziv' loop: testing final
#####

fprintf(fd, " MPFR_LOG_MSG ((\"Truncation rank: %%lu\n\", k));\n\n"):
fprintf(fd, " err = ERRORANALYSISISK + conditionNumber - MPFR_GET_EXP (s);\n\n"):
fprintf(fd, " /* err is the number of bits lost due to the evaluation error *\n"):
fprintf(fd, " /* wprec-(prec+1): number of bits lost due to the approximation error *\n"):
fprintf(fd, " MPFR_LOG_MSG ((\"Roundoff error: %%Pu\n\", err));\n"):
fprintf(fd, " MPFR_LOG_MSG ((\"Approxim error: %%Pu\n\", wprec-prec-1));\n\n"):

```

```

fprintf(fd, " if (wprec < err+1)\n");
fprintf(fd, " correct_bits=0;\n");
fprintf(fd, " else\n");
fprintf(fd, " {\n");
fprintf(fd, " if (wprec < err+prec+1)\n");
fprintf(fd, " correct_bits = wprec - err - 1;\n");
fprintf(fd, " else\n");
fprintf(fd, " correct_bits = prec;\n");
fprintf(fd, " }\n");
fprintf(fd, " if (MPFR_LIKELY (MPFR_CAN_ROUND (s, correct_bits, MPFR_PREC (y), rnd)))\n");
fprintf(fd, " break;\n\n");

fprintf(fd, " if (correct_bits == 0)\n");
fprintf(fd, " {\n");
fprintf(fd, " assumed_exponent *= 2;\n");
fprintf(fd, " MPFR_LOG_MSG (("Not a single bit correct (assumed_exponent=%%lu)\n",\n");
fprintf(fd, " assumed_exponent));\n");
fprintf(fd, " wprec = prec + ERRORANALYSISK + conditionNumber + assumed_exponent;\n");
fprintf(fd, " }\n");
fprintf(fd, " else\n");
fprintf(fd, " {\n");
fprintf(fd, " if (correct_bits < prec)\n");
fprintf(fd, " { /* The precision was badly chosen */\n");
fprintf(fd, " MPFR_LOG_MSG (("Bad assumption on the exponent of %s(x)\n", 0));\n", name);
fprintf(fd, " MPFR_LOG_MSG ((" (E=%%ld)\n", (long) MPFR_GET_EXP (s));\n");
fprintf(fd, " wprec = prec + err + 1;\n");
fprintf(fd, " }\n");
fprintf(fd, " else\n");
fprintf(fd, " { /* We are really in a bad case of the TMD */\n");
fprintf(fd, " MPFR_ZIV_NEXT (loop, prec);\n\n");

fprintf(fd, " /* We update wprec */\n");
fprintf(fd, " /* We assume that K will not be multiplied by more than 4 */\n");
fprintf(fd, " wprec = prec + ERRORANALYSIS4K + conditionNumber\n");
fprintf(fd, " - MPFR_GET_EXP (s);\n");
fprintf(fd, " }\n");
fprintf(fd, " }\n\n");

fprintf(fd, " } /* End
of ZIV loop */\n\n");
fprintf(fd, " MPFR_ZIV_FREE (loop);\n\n");
fprintf(fd, " r = mpfr_set (res, s, rnd);\n\n");

```

```

#####
Clearing everything
#####

```

```

fprintf(fd, " mpfr_clear (s);\n");
if (hardconstant=1)
then
 fprintf(fd, " mpfr_clear (x%d);\n", d):
fi:
if (type = FUNCTION_SERIES)
then
 fprintf(fd, " mpfr_clear (tmp);\n");
 for i from 1 to nops(exponents)-1 do
 fprintf(fd, " mpfr_clear (x%d);\n", exponents[i]):
 od:
fi:

for i from 1 to nc do
 fprintf(fd, " mpfr_clear (tip%d);\n", init_cond[i][1]):
od:

fprintf(fd, "\n"):
fprintf(fd, " MPFR_SAVE_EXPO_FREE (expo);\n"):
fprintf(fd, " return mpfr_check_range (res, r, rnd);\n"):
fprintf(fd, "}\n"):

fclose(fd):

for i from 1 to nops(required_mulsi) do
 printf("You need to provide a mpfr_mul_si%d function.\n", required_mulsi[i]):
 printf("
-> This can be achieved by a call to generate_muldivsin(\"mul\", %d):\n", required_mulsi[i]):
od:
for i from 1 to nops(required_divsi) do
 printf("You need to provide a mpfr_div_si%d function.\n", required_divsi[i]):
 printf(" -> This can be achieved by a call to generate_muldivsin(\"div\", %d):\n", required_divsi[i]):
od:

#####
Error analysis
#####

printf("\n\n"):
printf("Before the loop, we have "):
for i from 1 to nc do
 var := sprintf("tip%d", init_cond[i][1]):
 printf("%s {%d}", var, find_in_error_counter(var, error_counter)):
 if (i <> nc) then printf(", ") else printf("\n") fi:
od:
printf("Each step of the loop adds another {%d}\n", error_in_loop):

```



```

if (additional_error <> 0)
then printf("Moreover, the multiplication by %a adds another {%d} to each term before it is summed.\n", subs(n=k,
s2/s1), additional_error)
fi:
printf("Finally, we have $s = \sum_{i=0}^{k-1} (t_i^{k-d} + t_i^{d-k})$ \n", maxofti + additional_error + 1 - error_in_loop,
error_in_loop):
printf("We bound it by $\{(k+d) \cdot 2^{(d)}\}$ \n", ceil((maxofti + additional_error + 1 - error_in_loop)/error_in_loop),
ceil(log[2](error_in_loop))):

a := ceil((maxofti + additional_error + 1 - error_in_loop)/error_in_loop):
b := ceil(log[2](error_in_loop)):

if (a > 0)
then var := sprintf("MPFR_INT_CEIL_LOG2 (prec + %d)", a)
elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (prec)")
else sprintf("MPFR_INT_CEIL_LOG2 (prec - %d)", -a)
fi:
if (b > 0) then var := sprintf("%s + %d", var, b+2) fi:
var := sprintf("sed -n -i 's/ERRORANALYSISPREC/%s/g;p' %s", var, filename):
system(var):

if (a > 0)
then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
fi:
if (b > 0) then var := sprintf("%s
+ %d", var, b+2) fi:
var := sprintf("sed -n -i 's/ERRORANALYSISK/%s/g;p' %s", var, filename):
system(var):

if (a > 0)
then var := sprintf("MPFR_INT_CEIL_LOG2 (k + %d)", a)
elif (a=0) then var := sprintf("MPFR_INT_CEIL_LOG2 (k)")
else sprintf("MPFR_INT_CEIL_LOG2 (k - %d)", -a)
fi:
var := sprintf("%s + %d", var, b+4):
var := sprintf("sed -n -i 's/ERRORANALYSIS4K/%s/g;p' %s", var, filename):
system(var):

end proc:
read ("metaMPFR_straightforwardAlgo.mpl"):

f := AiryAi(x):
deq := hoxprtdiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):

```

```

printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file);
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

f := erf(x):
deq := holexprtodiffeq(f, y(x)):
rec := diffeqtorec(deq, y(x), a(n)):
name_of_function := op(0,f):
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file);
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*(6*n+2)*(6*n+3)*(6*n+4)*(6*n+5)*(6*n+6)*a(n)/
(n+1)^3*(3*n+1)*(3*n+2)*(3*n+3)*12288000), a(0)=1 }:
name_of_function := alpha:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/*****
Implementation de %s *****/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3), a(0)=1 }:
name_of_function := test0a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file);
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3), a(0)=Pi }:
name_of_function := test1a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file);
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=1 }:
name_of_function := test2a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/*****
Implementation de %s *****/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi }:
name_of_function := test3a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file);

```

generateStraightforwardAlgo(rec, a(n), CONSTANT\_SERIES, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+2) = -(6*n+1)*a(n)/(n+1)^3$ ,  $a(0)=1$ ,  $a(1)=2$  }:

name\_of\_function := test4a:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT\_SERIES, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+2) = -(6*n+1)*a(n)/(n+1)^3$ ,  $a(0)=\pi$ ,  $a(1)=0$  }:

name\_of\_function := test5a:

name\_of\_file

:= sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT\_SERIES, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+2) = (1/\pi)*(3*n+1)*a(n)/(n+2)$ ,  $a(0)=1$ ,  $a(1)=\pi$  }:

name\_of\_function := test6a:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT\_SERIES, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+2) = (1/\pi)*(3*n+1)*a(n)/(n+2)$ ,  $a(0)=\pi$ ,  $a(1)=0$  }:

name\_of\_function := test7a:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT\_SERIES, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+3) = -(6*n+1)*a(n)/$   
 $(n+1)^3$ ,  $a(0)=1$ ,  $a(1)=0$ ,  $a(2)=0$  }:

name\_of\_function := test8a:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT\_SERIES, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+3) = -(6*n+1)*a(n)/(n+1)^3$ ,  $a(0)=0$ ,  $a(1)=\pi$ ,  $a(2)=2$  }:

name\_of\_function := test9a:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), CONSTANT\_SERIES, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+3) = (1/\pi)*(3*n+1)*a(n)/(n+2)$ ,  $a(0)=0$ ,  $a(1)=0$ ,  $a(2)=1$  }:

name\_of\_function := test10a:

```

name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES,
name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi, a(4)=1, a(6)=2 }:
name_of_function := test11a:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), CONSTANT_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3), a(0)=1 }:
name_of_function := test0b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3), a(0)=Pi }:
name_of_function := test1b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec,
a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=1 }:
name_of_function := test2b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi }:
name_of_function := test3b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/((n+1)^3), a(0)=1, a(1)=2 }:
name_of_function := test4b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n***** Implementation de %s *****\n",

```

```

name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/((n+1)^3), a(0)=Pi, a(1)=0 }:
name_of_function := test5b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=1, a(1)=Pi }:
name_of_function := test6b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+2) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi, a(1)=0 }:
name_of_function := test7b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/*****
Implementation de %s *****/\n", name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/((n+1)^3), a(0)=1, a(1)=0, a(2)=0 }:
name_of_function := test8b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = -(6*n+1)*a(n)/((n+1)^3), a(0)=0, a(1)=Pi, a(2)=2 }:
name_of_function := test9b:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+3) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=0, a(1)=0, a(2)=1 }:
name_of_function := test10b:
name_of_file
:= sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+7) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi, a(4)=1, a(6)=2 }:
name_of_function := test11b:

```

```

name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3), a(0)=1 }:
name_of_function := test0c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = -(6*n+1)*a(n)/((n+1)^3
), a(0)=Pi }:
name_of_function := test1c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=1 }:
name_of_function := test2c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+1) = (1/Pi)*(3*n+1)*a(n)/((n+2)), a(0)=Pi }:
name_of_function := test3c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function,
name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/((n+1)^3), a(0)=1, a(1)=2 }:
name_of_function := test4c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):
generateStraightforwardAlgo(rec, a(n), FUNCTION_SERIES_RATIONAL, name_of_function, name_of_file, f):

rec := { a(n+2) = -(6*n+1)*a(n)/((n+1)^3), a(0)=Pi, a(1)=0 }:
name_of_function := test5c:
name_of_file := sprintf("%a.c", name_of_function):
printf("\n\n\n/***** Implementation de %s *****/\n",
name_of_file):

```

generateStraightforwardAlgo(rec, a(n), FUNCTION\_SERIES\_RATIONAL, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+2) = (1/\pi) \cdot (3 \cdot n + 1) \cdot a(n) / (n+2)$  }, a(0)=1, a(1)= $\pi$  }:

name\_of\_function := test6c:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec,

a(n), FUNCTION\_SERIES\_RATIONAL, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+2) = (1/\pi) \cdot (3 \cdot n + 1) \cdot a(n) / (n+2)$  }, a(0)= $\pi$ , a(1)=0 }:

name\_of\_function := test7c:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), FUNCTION\_SERIES\_RATIONAL, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+3) = -(6 \cdot n + 1) \cdot a(n) / (n+1)^3$  }, a(0)=1, a(1)=0, a(2)=0 }:

name\_of\_function := test8c:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), FUNCTION\_SERIES\_RATIONAL, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+3) = -(6 \cdot n + 1) \cdot a(n) / (n+1)^3$  }, a(0)=0, a(1)= $\pi$ , a(2)=2 }:

name\_of\_function := test9c:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\*

Implementation de %s \*\*\*\*\*\n", name\_of\_file):

generateStraightforwardAlgo(rec, a(n), FUNCTION\_SERIES\_RATIONAL, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+3) = (1/\pi) \cdot (3 \cdot n + 1) \cdot a(n) / (n+2)$  }, a(0)=0, a(1)=0, a(2)=1 }:

name\_of\_function := test10c:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), FUNCTION\_SERIES\_RATIONAL, name\_of\_function, name\_of\_file, f):

rec := {  $a(n+7) = (1/\pi) \cdot (3 \cdot n + 1) \cdot a(n) / (n+2)$  }, a(0)= $\pi$ , a(4)=1, a(6)=2 }:

name\_of\_function := test11c:

name\_of\_file := sprintf("%a.c", name\_of\_function):

printf("\n\n\n\*\*\*\*\* Implementation de %s \*\*\*\*\*\n",  
name\_of\_file):

generateStraightforwardAlgo(rec, a(n), FUNCTION\_SERIES\_RATIONAL, name\_of\_function, name\_of\_file, f):

# 1.72 mpclib 1.08

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## 1.73 libffi 3.4.7

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anstyle-wincon 3.0.3 - MIT OR Apache-2.0  
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async-broadcast 0.5.1 - MIT OR Apache-2.0  
<https://github.com/smol-rs/async-broadcast>

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async-io 2.3.2 - Apache-2.0 OR MIT  
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<https://github.com/dcchut/async-recursion>

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async-signal 0.2.6 - Apache-2.0 OR MIT  
<https://github.com/smol-rs/async-signal>

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async-task 4.7.1 - Apache-2.0 OR MIT  
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async-trait  
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<https://github.com/dtolnay/async-trait>

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atomic-waker 1.1.2 - Apache-2.0 OR MIT  
<https://github.com/smol-rs/atomic-waker>

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autocfg 1.3.0 - Apache-2.0 OR MIT  
<https://github.com/cuviper/autocfg>

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backtrace 0.3.71 - MIT OR Apache-2.0  
<https://github.com/rust-lang/backtrace-rs>

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base64 0.21.7 - MIT OR Apache-2.0  
<https://github.com/marshallpierce/rust-base64>

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bit-vec 0.6.3 - MIT/Apache-2.0  
<https://github.com/contain-rs/bit-vec>

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bitflags 1.3.2 - MIT/Apache-2.0  
bitflags 2.5.0 - MIT OR Apache-2.0  
<https://github.com/bitflags/bitflags>

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block-buffer 0.10.4 - MIT OR Apache-2.0  
<https://github.com/RustCrypto/utils>

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[deps-link]: <https://deps.rs/repo/github/RustCrypto/utils>

[//]: # (crates)

[`blobby`]: ./blobby  
[`block-buffer`]: ./block-buffer  
[`blockpadding`]: ./block-padding  
[`cmov`]: ./cmov  
[`collectable`]: ./collectable  
[`cpufeatures`]: ./cpufeatures  
[`dbl`]: ./dbl  
[`hex-literal`]: ./hex-literal  
[`inout`]: ./inout  
[`opaque-debug`]: ./opaque-debug  
[`wycheproof2blb`]: ./wycheproof2blb  
[`zeroize`]:  
./zeroize

[//]: # (misc)

[Wycheproof]: <https://github.com/google/wycheproof>

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block-padding 0.3.3 - MIT OR Apache-2.0

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[//]: # (crates)

[`blobby`]: `./blobby`

[`block-buffer`]: `./block-buffer`

[`blockpadding`]: `./block-padding`

[`cmov`]: `./cmov`

[`collectable`]: `./collectable`

[`cpufeatures`]: `./cpufeatures`

[`dbl`]: `./dbl`

[`hex-literal`]: `./hex-literal`

[`inout`]: `./inout`

[`opaque-debug`]: `./opaque-debug`

[`wycheproof2blb`]: `./wycheproof2blb`

[`zeroize`]: `./zeroize`

[//]: # (misc)

[Wycheproof]: <https://github.com/google/wycheproof>  
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blocking 1.6.0 - Apache-2.0 OR MIT  
<https://github.com/smol-rs/blocking>

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bumpalo 3.16.0 - MIT OR Apache-2.0  
<https://github.com/fitzgen/bumpalo>

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byteorder  
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bytes 1.6.0 - MIT  
<https://github.com/tokio-rs/bytes>

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cfg-if 1.0.0 - MIT/Apache-2.0  
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chrono

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clap 4.5.4 - MIT OR Apache-2.0

<https://github.com/clap-rs/clap>

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clap\_builder 4.5.2 - MIT OR Apache-2.0  
<https://github.com/clap-rs/clap>

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clap\_lex 0.7.0 - MIT OR Apache-2.0  
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concurrent-queue 2.5.0 - Apache-2.0 OR MIT  
<https://github.com/smol-rs/concurrent-queue>

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0.15.8 - MIT  
<https://github.com/console-rs/console>

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const\_format 0.2.32 - Zlib  
[https://github.com/rodrimati1992/const\\_format\\_crates/](https://github.com/rodrimati1992/const_format_crates/)

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const\_format\_proc\_macros 0.2.32 - Zlib  
[https://github.com/rodrimati1992/const\\_format\\_crates/](https://github.com/rodrimati1992/const_format_crates/)

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core-foundation 0.9.4 - MIT OR Apache-2.0  
<https://github.com/servo/core-foundation-rs>

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core-foundation-sys 0.8.6 - MIT OR Apache-2.0  
<https://github.com/servo/core-foundation-rs>

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cpufeatures  
0.2.12 - MIT OR Apache-2.0  
<https://github.com/RustCrypto/utils>

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[//]: # (crates)

[`blobby`]: [./blobby](#)  
[`block-buffer`]: [./block-buffer](#)  
[`blockpadding`]: [./block-padding](#)  
[`cmov`]:  
[./cmov](#)  
[`collectable`]: [./collectable](#)  
[`cpufeatures`]: [./cpufeatures](#)  
[`dbl`]: [./dbl](#)  
[`hex-literal`]: [./hex-literal](#)  
[`inout`]: [./inout](#)  
[`opaque-debug`]: [./opaque-debug](#)  
[`wycheproof2blb`]: [./wycheproof2blb](#)  
[`zeroize`]: [./zeroize](#)

[//]: # (misc)

[Wycheproof]: <https://github.com/google/wycheproof>

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crc32fast 1.4.1 - MIT OR Apache-2.0

<https://github.com/srijs/rust-crc32fast>

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crossbeam-channel 0.5.13 - MIT OR Apache-2.0

<https://github.com/crossbeam-rs/crossbeam>

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crossbeam-utils  
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<https://github.com/crossbeam-rs/crossbeam>

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crypto-common 0.1.6 - MIT OR Apache-2.0

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[//]: # (crates)

[`aead`]: ./aead

[`asyncksignature`]: ./signature/async

[`cipher`]: ./cipher

[`cryptocommon`]: ./crypto-common

[`crypto`]: ./crypto

[`digest`]: ./digest

[`ellipticcurve`]: ./elliptic-curve

[`kem`]: ./kem

[`password-hash`]: ./password-hash

[`signature`]: ./signature

[`universalhash`]: ./universal-hash

[//]: # (algorithms)

[Authenticated encryption]: [https://en.wikipedia.org/wiki/Authenticated\\_encryption](https://en.wikipedia.org/wiki/Authenticated_encryption)

[Block]: [https://en.wikipedia.org/wiki/Block\\_cipher](https://en.wikipedia.org/wiki/Block_cipher)

[Message authentication code]: [https://en.wikipedia.org/wiki/Message\\_authentication\\_code](https://en.wikipedia.org/wiki/Message_authentication_code)  
[Cryptographic hash function]: [https://en.wikipedia.org/wiki/Cryptographic\\_hash\\_function](https://en.wikipedia.org/wiki/Cryptographic_hash_function)  
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data-encoding 2.6.0 - MIT  
<https://github.com/ia0/data-encoding>

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deranged 0.3.11 - MIT OR Apache-2.0  
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dialoguer 0.10.4 - MIT  
<https://github.com/console-rs/dialoguer>

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[deps-image]: <https://deps.rs/repo/github/RustCrypto/traits/status.svg>  
[deps-link]: <https://deps.rs/repo/github/RustCrypto/traits>  
[msrv-1.85]: <https://img.shields.io/badge/rustc-1.85.0+-blue.svg>

[//]: # (crates)

[`aead`]: ./aead  
[`asynctransport`]: ./signature/asynctransport  
[`cipher`]: ./cipher  
[`cryptocommon`]: ./crypto-common  
[`crypto`]: ./crypto  
[`digest`]: ./digest  
[`ellipticcurve`]: ./elliptic-curve  
[`kem`]: ./kem  
[`password-hash`]: ./password-hash  
[`signature`]: ./signature  
[`universalhash`]: ./universal-hash

[//]: # (algorithms)

[Authenticated encryption]: [https://en.wikipedia.org/wiki/Authenticated\\_encryption](https://en.wikipedia.org/wiki/Authenticated_encryption)  
[Block]: [https://en.wikipedia.org/wiki/Block\\_cipher](https://en.wikipedia.org/wiki/Block_cipher)  
[Message authentication code]: [https://en.wikipedia.org/wiki/Message\\_authentication\\_code](https://en.wikipedia.org/wiki/Message_authentication_code)  
[Cryptographic hash function]: [https://en.wikipedia.org/wiki/Cryptographic\\_hash\\_function](https://en.wikipedia.org/wiki/Cryptographic_hash_function)  
[Digital signature]: [https://en.wikipedia.org/wiki/Digital\\_signature](https://en.wikipedia.org/wiki/Digital_signature)  
[Elliptic curve cryptography]: [https://en.wikipedia.org/wiki/Elliptic-curve\\_cryptography](https://en.wikipedia.org/wiki/Elliptic-curve_cryptography)  
[Key encapsulation mechanism]: [https://en.wikipedia.org/wiki/Key\\_encapsulation](https://en.wikipedia.org/wiki/Key_encapsulation)  
[Password hashing]: [https://en.wikipedia.org/wiki/Cryptographic\\_hash\\_function#Password\\_verification](https://en.wikipedia.org/wiki/Cryptographic_hash_function#Password_verification)  
[Stream cipher]: [https://en.wikipedia.org/wiki/Stream\\_cipher](https://en.wikipedia.org/wiki/Stream_cipher)  
[Universal hash function]: [https://en.wikipedia.org/wiki/Universal\\_hashing](https://en.wikipedia.org/wiki/Universal_hashing)

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dirs 5.0.1 - MIT OR Apache-2.0  
<https://github.com/dirs-dev/dirs-rs>

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dirs-sys  
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dirs-sys 0.4.1 - MIT OR Apache-2.0  
<https://github.com/dirs-dev/dirs-sys-rs>

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<https://github.com/yaahc/displaydoc>

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encode\_unicode 0.3.6 - MIT/Apache-2.0

[https://github.com/tormol/encode\\_unicode](https://github.com/tormol/encode_unicode)

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encoding\_rs 0.8.34 - (Apache-2.0 OR MIT) AND BSD-3-Clause  
[https://github.com/hsivonen/encoding\\_rs](https://github.com/hsivonen/encoding_rs)

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<https://github.com/meithecatte/enumflags2>

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enumflags2\_derive 0.7.9 - MIT OR Apache-2.0  
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<https://github.com/lambda-fairy/rust-errno>

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event-listener 2.5.3 - Apache-2.0 OR MIT  
event-listener 3.1.0 - Apache-2.0 OR MIT  
event-listener 4.0.3 - Apache-2.0 OR MIT  
event-listener 5.3.0 - Apache-2.0 OR MIT  
<https://github.com/smol-rs/event-listener>

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event-listener-strategy 0.4.0 - Apache-2.0 OR MIT  
event-listener-strategy 0.5.2 - Apache-2.0 OR MIT  
<https://github.com/smol-rs/event-listener-strategy>

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flate2 1.0.30 - MIT OR Apache-2.0  
<https://github.com/rust-lang/flate2-rs>

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fnv 1.0.7 - Apache-2.0 / MIT  
<https://github.com/servo/rust-fnv>

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foreign-types-shared  
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form\_urlencoded 1.2.1 - MIT OR Apache-2.0  
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futures-lite

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futures-lite 2.3.0 - Apache-2.0 OR MIT

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futures-util 0.3.30 - MIT OR Apache-2.0

<https://github.com/rust-lang/futures-rs>

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generic-array 0.14.7 - MIT

<https://github.com/fizyk20/generic-array>

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gethostname 0.4.3 - Apache-2.0  
<https://github.com/swsnr/gethostname.rs>

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getrandom 0.1.16 - MIT OR Apache-2.0  
getrandom 0.2.15 - MIT OR Apache-2.0  
<https://github.com/rust-random/getrandom>

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gimli 0.28.1 - MIT OR Apache-2.0  
<https://github.com/gimli-rs/gimli>

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h2 0.3.26 - MIT

<https://github.com/hyperium/h2>

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hashbrown 0.12.3 - MIT OR Apache-2.0  
hashbrown 0.14.5 - MIT OR Apache-2.0  
<https://github.com/rust-lang/hashbrown>

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heck 0.5.0 - MIT OR Apache-2.0  
<https://github.com/withoutboats/heck>

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hermit-abi 0.3.9 - MIT OR Apache-2.0  
<https://github.com/hermit-os/hermit-rs>

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hex 0.4.3 - MIT OR Apache-2.0  
<https://github.com/KokaKiwi/rust-hex>

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hex-literal 0.3.4 - MIT OR Apache-2.0  
<https://github.com/RustCrypto/Utils>

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[//]: # (crates)

[`blobby`]: `./blobby`

[`block-buffer`]: `./block-buffer`

[`blockpadding`]: `./block-padding`

[`cmov`]: `./cmov`

[`collectable`]: `./collectable`

[`cpufeatures`]: `./cpufeatures`

[`dbl`]: `./dbl`

[`hex-literal`]: `./hex-literal`

[`inout`]: `./inout`

[`opaque-debug`]: `./opaque-debug`

[`wycheproof2blb`]: `./wycheproof2blb`

[`zeroize`]: `./zeroize`

[//]: # (misc)

[Wycheproof]: <https://github.com/google/wycheproof>

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hmac

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<https://github.com/RustCrypto/MACs>

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[msrv-1.85]: <https://img.shields.io/badge/rustc-1.85.0+-blue.svg>

[//]:

# (crates)

[`belt-mac`]: ./belt-mac

[`cbc-mac`]: ./cbc-mac

[`cmac`]: ./cmac

[`hmac`]: ./hmac

[`pmac`]: ./pmac

[`retail-mac`]: ./retail-mac

[//]: # (footnotes)

[1]: [https://en.wikipedia.org/wiki/Message\\_authentication\\_code](https://en.wikipedia.org/wiki/Message_authentication_code)

[//]: # (algorithms)

[BelT MAC]: <https://apmi.bsu.by/assets/files/std/belt-spec371.pdf>

[CBC-MAC]: <https://en.wikipedia.org/wiki/CBC-MAC>

[CMAC]: [https://en.wikipedia.org/wiki/One-key\\_MAC](https://en.wikipedia.org/wiki/One-key_MAC)

[HMAC]: <https://en.wikipedia.org/wiki/HMAC>

[PMAC]: [https://en.wikipedia.org/wiki/PMAC\\_\(cryptography\)](https://en.wikipedia.org/wiki/PMAC_(cryptography))

[Retail MAC]: [https://en.wikipedia.org/wiki/ISO/IEC\\_9797-1#MAC\\_algorithm\\_3](https://en.wikipedia.org/wiki/ISO/IEC_9797-1#MAC_algorithm_3)

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http 0.2.12 - MIT OR Apache-2.0

<https://github.com/hyperium/http>

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http-body  
0.4.6 - MIT  
<https://github.com/hyperium/http-body>

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httparse 1.8.0 - MIT/Apache-2.0  
<https://github.com/seanmonstar/httparse>

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httpdate 1.0.3 - MIT OR Apache-2.0  
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hyper 0.14.28 - MIT  
<https://github.com/hyperium/hyper>

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hyper-tls  
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iana-time-zone 0.1.60 - MIT OR Apache-2.0  
<https://github.com/strawlab/iana-time-zone>

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iana-time-zone-haiku 0.1.2 - MIT OR Apache-2.0  
<https://github.com/strawlab/iana-time-zone>

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icu\_collections 1.5.0 - Unicode-3.0  
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icu\_properties

1.5.1 - Unicode-3.0

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indicatif 0.17.8 - MIT  
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<https://github.com/sunfishcode/io-lifetimes>

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is-docker 0.2.0 - MIT  
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is-wsl 0.4.0 - MIT  
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is\_terminal\_polyfill 1.70.0 - MIT OR Apache-2.0  
[https://github.com/polyfill-rs/is\\_terminal\\_polyfill](https://github.com/polyfill-rs/is_terminal_polyfill)

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itoa  
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js-sys 0.3.69 - MIT OR Apache-2.0  
<https://github.com/rustwasm/wasm-bindgen/tree/master/crates/js-sys>

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libc  
0.2.155 - MIT OR Apache-2.0  
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libredox 0.1.3 - MIT  
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libz-sys 1.1.16 - MIT OR Apache-2.0  
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litemap 0.7.4 - Unicode-3.0

<https://github.com/unicode-org/icu4x>

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lock\_api 0.4.12 - MIT OR Apache-2.0  
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log 0.4.21 - MIT OR Apache-2.0  
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memoffset  
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mio 0.8.11 - MIT  
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ntapi 0.4.1 - Apache-2.0 OR MIT  
<https://github.com/MSxDOS/ntapi>

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num 0.4.3 - MIT OR Apache-2.0

<https://github.com/rust-num/num>

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num-bigint 0.4.5 - MIT OR Apache-2.0

<https://github.com/rust-num/num-bigint>

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num-complex  
0.4.6 - MIT OR Apache-2.0  
<https://github.com/rust-num/num-complex>

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num-conv 0.1.0 - MIT OR Apache-2.0  
<https://github.com/jhpratt/num-conv>

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num-integer 0.1.46 - MIT OR Apache-2.0  
<https://github.com/rust-num/num-integer>

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num-iter 0.1.45 - MIT OR Apache-2.0  
<https://github.com/rust-num/num-iter>

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num-rational 0.4.2 - MIT OR Apache-2.0  
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num-traits 0.2.19 - MIT OR Apache-2.0  
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num\_cpus 1.16.0 - MIT OR Apache-2.0  
[https://github.com/seanmonstar/num\\_cpus](https://github.com/seanmonstar/num_cpus)

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number\_prefix 0.4.0 - MIT

<https://github.com/ogham/rust-number-prefix>

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object 0.32.2 - Apache-2.0 OR MIT

<https://github.com/gimli-rs/object>

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once\_cell 1.19.0 - MIT OR Apache-2.0  
[https://github.com/matklad/once\\_cell](https://github.com/matklad/once_cell)

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open 4.2.0 - MIT  
<https://github.com/Byron/open-rs>

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openssl 0.10.70 - Apache-2.0  
<https://github.com/sfackler/rust-openssl>

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openssl-macros 0.1.1 - MIT/Apache-2.0

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openssl-probe 0.1.5 - MIT/Apache-2.0  
<https://github.com/alexcrichton/openssl-probe>

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openssl-sys 0.9.105 - MIT  
<https://github.com/sfackler/rust-openssl>

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opentelemetry 0.19.0 - Apache-2.0

<https://github.com/open-telemetry/opentelemetry-rust/tree/main/opentelemetry>

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parking\_lot 0.12.2 - MIT OR Apache-2.0  
[https://github.com/Amanieu/parking\\_lot](https://github.com/Amanieu/parking_lot)

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parking\_lot\_core  
0.9.10 - MIT OR Apache-2.0  
[https://github.com/Amanieu/parking\\_lot](https://github.com/Amanieu/parking_lot)

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pathdiff 0.2.1 - MIT/Apache-2.0  
<https://github.com/Manishearth/pathdiff>



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percent-encoding 2.3.1 - MIT OR Apache-2.0  
<https://github.com/servo/rust-url/>

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<https://github.com/taiki-e/pin-project>

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pin-project-internal 1.1.5 - Apache-2.0 OR MIT  
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pin-project-lite 0.2.14 - Apache-2.0 OR MIT  
<https://github.com/taiki-e/pin-project-lite>

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pin-utils 0.1.0 - MIT OR Apache-2.0  
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piper 0.2.2 - MIT OR Apache-2.0  
<https://github.com/smol-rs/piper>

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pkg-config  
0.3.30 - MIT OR Apache-2.0  
<https://github.com/rust-lang/pkg-config-rs>

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polling 2.8.0 - Apache-2.0 OR MIT

polling 3.7.0 - Apache-2.0 OR MIT

<https://github.com/smol-rs/polling>

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portable-atomic 1.6.0 - Apache-2.0 OR MIT

<https://github.com/taiki-e/portable-atomic>

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powerfmt 0.2.0 - MIT OR Apache-2.0  
<https://github.com/jhpratt/powerfmt>

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ppv-lite86  
0.2.17 - MIT/Apache-2.0  
<https://github.com/cryptocorrosion/cryptocorrosion>

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proc-macro-crate 1.3.1 - MIT OR Apache-2.0  
<https://github.com/bkchr/proc-macro-crate>

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proc-macro2 1.0.83 - MIT OR Apache-2.0  
<https://github.com/dtolnay/proc-macro2>

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quote 1.0.36 - MIT OR Apache-2.0  
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rand  
0.7.3 - MIT OR Apache-2.0  
rand 0.8.5 - MIT OR Apache-2.0  
<https://github.com/rust-random/rand>

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rand\_chacha 0.2.2 - MIT OR Apache-2.0

rand\_chacha 0.3.1 - MIT OR Apache-2.0

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rand\_core 0.5.1 - MIT OR Apache-2.0  
rand\_core 0.6.4 - MIT OR Apache-2.0  
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rand\_hc  
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redox\_syscall 0.4.1 - MIT  
redox\_syscall 0.5.1 - MIT  
<https://github.com/redox-os/syscall>

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redox\_users 0.4.5 - MIT  
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regex 1.10.4 - MIT OR Apache-2.0  
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regex-automata 0.4.6 - MIT OR Apache-2.0  
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regex-syntax 0.8.3 - MIT OR Apache-2.0  
<https://github.com/rust-lang/regex/tree/master/regex-syntax>

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reqwest 0.11.27 - MIT OR Apache-2.0  
<https://github.com/seanmonstar/reqwest>

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mp  
0.8.14 - MIT  
<https://github.com/3Hren/msgpack-rust>

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rmp-serde 1.3.0 - MIT  
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russh fd4f608a83753f9f3e137f95600faffede71cf65  
<https://github.com/microsoft/vscode-russh>

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security-framework 2.11.0 - MIT OR Apache-2.0  
<https://github.com/kornelski/rust-security-framework>

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serde\_urlencoded 0.7.1 - MIT/Apache-2.0

[https://github.com/nox/serde\\_urlencoded](https://github.com/nox/serde_urlencoded)

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sha1 0.10.6 - MIT OR Apache-2.0

<https://github.com/RustCrypto/hashes>

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[`asconhash`]: [./ascon-hash](#)

[`belthash`]: [./belt-hash](#)

[`blake2`]: [./blake2](#)

[`fsb`]: [./fsb](#)

[`gost94`]: [./gost94](#)

[`groestl`]: [./groestl](#)

[`jh`]: [./jh](#)

[`k12`]: [./k12](#)

[`kupyna`]: [./kupyna](#)

[`md2`]: [./md2](#)

[`md4`]: [./md4](#)

[`md5`]: [./md5](#)

[`ripemd`]: [./ripemd](#)

[`sha1`]: [./sha1](#)

[`sha1-checked`]: [./sha1-checked](#)

[`sha2`]: [./sha2](#)

[`sha3`]: [./sha3](#)

[`shabal`]: [./shabal](#)

[`skein`]: [./skein](#)

[`sm3`]: [./sm3](#)

[`streebog`]: [./streebog](#)

[`tiger`]: [./tiger](#)

[`whirlpool`]: [./whirlpool](#)

[//]: # (footnotes)

[1]: [https://en.wikipedia.org/wiki/Cryptographic\\_hash\\_function](https://en.wikipedia.org/wiki/Cryptographic_hash_function)

[`blake3`]: <https://github.com/BLAKE3-team/BLAKE3>

[`base16ct`]:

<https://docs.rs/base16ct>

[`base64ct`]: <https://docs.rs/base64ct>

[`digest`]: <https://docs.rs/digest>

[`Digest`]: <https://docs.rs/digest/0.10.0/digest/trait.Digest.html>

[`Digest::digest`]: <https://docs.rs/digest/0.10.0/digest/trait.Digest.html#tymethod.digest>

[`DynDigest`]: <https://docs.rs/digest/0.10.0/digest/trait.DynDigest.html>

[`generic-array`]: <https://docs.rs/generic-array>

[HMAC]: [https://en.wikipedia.org/wiki/Hash-based\\_message\\_authentication\\_code](https://en.wikipedia.org/wiki/Hash-based_message_authentication_code)  
[`Read`]: <https://doc.rust-lang.org/std/io/trait.Read.html>  
[`Write`]: <https://doc.rust-lang.org/std/io/trait.Write.html>  
[`hmac`]: <https://docs.rs/hmac>  
[RustCrypto/MACs]: <https://github.com/RustCrypto/MACs>

[//]: # (algorithms)

[Ascon]: <https://ascon.iaik.tugraz.at>  
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[Kupyna]: <https://eprint.iacr.org/2015/885.pdf>  
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[Tiger]: <http://www.cs.technion.ac.il/~biham/Reports/Tiger/tiger/tiger.html>

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sha2  
0.10.8 - MIT OR Apache-2.0  
<https://github.com/RustCrypto/ hashes>

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[`whirlpool`]: ./whirlpool

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[Tiger]: <http://www.cs.technion.ac.il/~biham/Reports/Tiger/tiger/tiger.html>

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shell-escape 0.1.5 - MIT/Apache-2.0  
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slab 0.4.9 - MIT  
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smallvec 1.13.2 - MIT OR Apache-2.0  
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socket2 0.5.7 - MIT OR Apache-2.0  
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[https://github.com/storyyeller/stable\\_deref\\_trait](https://github.com/storyyeller/stable_deref_trait)

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static\_assertions 1.1.0 - MIT OR Apache-2.0  
<https://github.com/nvzqz/static-assertions-rs>

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subtle

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syn 1.0.109 - MIT OR Apache-2.0

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<https://github.com/dtolnay/syn>

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sync\_wrapper  
0.1.2 - Apache-2.0  
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sysinfo 0.29.11 - MIT  
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system-configuration 0.5.1  
- MIT OR Apache-2.0  
<https://github.com/mullvad/system-configuration-rs>

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system-configuration-sys 0.5.0 - MIT OR Apache-2.0  
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tar 0.4.40 - MIT/Apache-2.0  
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tempfile 3.10.1 - MIT OR Apache-2.0  
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thiserror

1.0.61 - MIT OR Apache-2.0

<https://github.com/dtolnay/thiserror>

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thiserror-impl 1.0.61 - MIT OR Apache-2.0  
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time 0.3.36 - MIT OR Apache-2.0  
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time-core 0.1.2 - MIT OR Apache-2.0  
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tinyst 0.7.6 - Unicode-3.0  
<https://github.com/unicode-org/icu4x>

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tokio 1.37.0 - MIT  
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tokio-macros 2.2.0 - MIT  
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tokio-native-tls 0.3.1 - MIT  
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tokio-stream

0.1.15 - MIT

<https://github.com/tokio-rs/tokio>

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tokio-tungstenite 0.20.1 - MIT

<https://github.com/snapview/tokio-tungstenite>

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tokio-util 0.7.11 - MIT  
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toml\_datetime 0.6.6 - MIT OR Apache-2.0  
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toml\_edit 0.19.15 - MIT OR Apache-2.0  
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tower-service 0.3.2 - MIT

<https://github.com/tower-rs/tower>

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tracing 0.1.40 - MIT  
<https://github.com/tokio-rs/tracing>

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tracing-attributes 0.1.27 - MIT  
<https://github.com/tokio-rs/tracing>

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tracing-core 0.1.32 - MIT  
<https://github.com/tokio-rs/tracing>

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try-lock 0.2.5 - MIT  
<https://github.com/seanmonstar/try-lock>

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tungstenite 0.20.1 - MIT OR Apache-2.0  
<https://github.com/snapview/tungstenite-rs>

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tunnels

8cae9b2a24c65c6c1958f5a0e77d72b23b5c6c30

<https://github.com/microsoft/dev-tunnels>

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<https://github.com/paholg/typenum>

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uds\_windows 1.1.0 - MIT

[https://github.com/haraldh/rust\\_uds\\_windows](https://github.com/haraldh/rust_uds_windows)

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unicode-ident 1.0.12 - (MIT OR Apache-2.0) AND Unicode-DFS-2016  
<https://github.com/dtolnay/unicode-ident>

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unicode-width 0.1.12 - MIT OR Apache-2.0  
<https://github.com/unicode-rs/unicode-width>

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unicode-xid 0.2.4 - MIT OR Apache-2.0  
<https://github.com/unicode-rs/unicode-xid>

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url 2.5.4 - MIT OR Apache-2.0  
<https://github.com/servo/rust-url>

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urlencoding

2.1.3 - MIT

[https://github.com/kornelski/rust\\_urlencoding](https://github.com/kornelski/rust_urlencoding)

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utf-8 0.7.6 - MIT OR Apache-2.0

<https://github.com/SimonSapin/rust-utf8>

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utf16\_iter 1.0.5 - Apache-2.0 OR MIT  
[https://github.com/hsivonen/utf16\\_iter](https://github.com/hsivonen/utf16_iter)

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[https://github.com/hsivonen/utf8\\_iter](https://github.com/hsivonen/utf8_iter)

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utf8parse 0.2.1 - Apache-2.0  
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uuid 1.8.0 - Apache-2.0 OR MIT  
<https://github.com/uuid-rs/uuid>

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vcpkg 0.2.15 - MIT/Apache-2.0  
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version\_check 0.9.4 - MIT/Apache-2.0  
[https://github.com/SergioBenitez/version\\_check](https://github.com/SergioBenitez/version_check)

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waker-fn  
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<https://github.com/smol-rs/waker-fn>

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want 0.3.1 - MIT  
<https://github.com/seanmonstar/want>

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wasm-bindgen 0.2.92 - MIT OR Apache-2.0  
<https://github.com/rustwasm/wasm-bindgen>

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wasm-bindgen-backend 0.2.92 - MIT OR Apache-2.0  
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wasm-bindgen-futures 0.4.42 - MIT OR Apache-2.0  
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<https://github.com/retep998/winapi-rs>

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windows\_aarch64\_gnullvm

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winnow 0.5.40 - MIT

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zerofrom 0.1.5 - Unicode-3.0  
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zeroize 1.7.0 - Apache-2.0 OR MIT

<https://github.com/RustCrypto/utils/tree/master/zeroize>

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[chat-link]: <https://rustcrypto.zulipchat.com/#narrow/stream/260052-utils>

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[deps-image]:

<https://deps.rs/repo/github/RustCrypto/utils/status.svg>

[deps-link]: <https://deps.rs/repo/github/RustCrypto/utils>

[//]: # (crates)

[`blobby`]: ./blobby

[`block-buffer`]: ./block-buffer

[`blockpadding`]: ./block-padding

[`cmov`]: ./cmov  
[`collectable`]: ./collectable  
[`cpufeatures`]: ./cpufeatures  
[`dbl`]: ./dbl  
[`hex-literal`]: ./hex-literal  
[`inout`]: ./inout  
[`opaque-debug`]: ./opaque-debug  
[`wycheproof2blb`]: ./wycheproof2blb  
[`zeroize`]: ./zeroize

[//]: # (misc)

[Wycheproof]: <https://github.com/google/wycheproof>

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zerovec 0.10.4 - Unicode-3.0  
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zip 0.6.6 - MIT  
<https://github.com/zip-rs/zip2>

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zvariant 3.15.2 - MIT  
<https://github.com/dbus2/zbus/>

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zvariant\_utils 1.0.1 - MIT

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cacheable-request 7.0.4 - MIT

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fish-shell 3.7.1

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language-less

0.6.1 - MIT

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vscode-logfile-highlighter 3.3.4 - MIT  
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vscode-swift 0.0.1 - MIT  
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vscode-win32-app-container-tokens  
<https://github.com/microsoft/vscode-win32-app-container-tokens>

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walles/git-commit-message-plus  
1.0.0 - MIT  
<https://github.com/walles/git-commit-message-plus>

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Web Background Synchronization - Apache-2.0

<https://github.com/WICG/background-sync>

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zsh 5.9  
<https://github.com/zsh-users/zsh>

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 "name",
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},
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 },
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 }
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Found in path(s):

\* /failureaccess-1-0-1-sources-13-jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

\* /failureaccess-1-0-1-sources-13-jar/com/google/common/util/concurrent/internal/InternalFutures.java

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- jsp\_2\_2.xsd
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- jsp\_3\_1.xsd
- web-app\_5\_0.xsd
- web-app\_6\_0.xsd
- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- 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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- jsp\_3\_1.xsd
- web-app\_5\_0.xsd
- web-app\_6\_0.xsd
- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd
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## 1.83 openjdk-jre 17.0.16u8

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## xwd v1.0.7

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...

Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
Owen Taylor
Roderick Sheeter
Roozbeh Pournader
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AUTHORS File Information

...

Main Author

Marti Maria

Contributors

Bob Friesenhahn

Kai-Uwe Behrmann

Stuart Nixon

Jordi Vilar

Richard Hughes

Auke Nauta

Chris Evans (Google)

Lorenzo Ridolfi

Robin Watts (Artifex)

Shawn Pedersen

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The Unicode Standard, Unicode Character Database, Version 13.0.0

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jQuery UI v1.13.2

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ASM Bytecode Manipulation Framework v8.0.1

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Dynalink v.5

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	GL/glxt.h	Khronos
	GL/wglxt.h	Khronos
	KHR/khrplatform.h	Khronos

include/GL/gl.h :

Mesa 3-D
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== Authors ==

Gershon Elber <gershon[AT]cs.technion.sc.il>
original giflib code

Toshio Kuratomi <toshio[AT]tiki-lounge.com>
uncompressed gif writing code
former maintainer

Eric Raymond <esr[AT]snark.thyrsus.com>
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include/GL/gl.h :

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#### Main Author

-----

Marti Maria

#### Contributors

-----

Bob Friesenhahn

Kai-Uwe Behrmann

Stuart Nixon

Jordi Vilar

Richard Hughes

Auke Nauta

Chris Evans (Google)

Lorenzo Ridolfi

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Shawn Pedersen

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Gershon Elber <gershon[AT]cs.technion.sc.il>  
original giflib code

Toshio Kuratomi <toshio[AT]tiki-lounge.com>  
uncompressed gif writing code  
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## Bert Belder: wepoll v 1.5.8

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```
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## 1.92 el-api 6.0.29

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small inline

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* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
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* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java

```

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* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
*
/netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
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* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
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* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
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* <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):

\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/base64/Base64.java  
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Found in path(s):

\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java  
\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java  
\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
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\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/Headers.java  
\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java  
\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java  
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 * under the License.
 */
/*
 * Written by Robert Harder and released to the public domain, as explained at
 * https://creativecommons.org/licenses/publicdomain
 */
/**
 * Enumeration of supported Base64 dialects.
 *
 * <p>
 * The internal lookup tables in this class has been derived from
 * Robert
 * Harder's Public Domain
 * Base64 Encoder/Decoder.
 */
```

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- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/xml/package-info.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/CodecException.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
- \*
- /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DecoderResult.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
- \*
- /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
- \*
- /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/Delimiters.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DecoderException.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/package-info.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
- \*
- /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java

```

* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
*
/netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
*
/netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
*
/netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/package-info.java
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/netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/bytes/package-info.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
* lengthAdjustment = -2 (= 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>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* 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" |
* | 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
* lengthAdjustment = 2 (= 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
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 +
LEN)
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |-----| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+-----+

```



```

* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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Found in path(s):

\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java

\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/ValueConverter.java

\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java

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- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DateFormatter.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
- \*
- /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

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Found in path(s):

- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
- \*
- /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
- \* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

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Found in path(s):

\* /netty-codec-4-1-60-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java

## 1.99 tomcat-storeconfig 9.0.98

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- \* /jcl-over-slf4j-1-5-11-sources-1-jar/org/apache/commons/logging/impl/NoOpLog.java
- \* /jcl-over-slf4j-1-5-11-sources-1-jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
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- /jcl-over-slf4j-1-5-11-sources-1-jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
- \* /jcl-over-slf4j-1-5-11-sources-1-jar/org/apache/commons/logging/LogConfigurationException.java
- \* /jcl-over-slf4j-1-5-11-sources-1-jar/org/apache/commons/logging/Log.java
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## 1.103 asm-tree 9.7.1

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\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/ClassNode.java

\*

/asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/ParameterNode.java

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\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/MethodNode.java

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\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/RecordComponentNode.java

\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java

\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java

\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/IincInsnNode.java

\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java

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\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/InsnList.java

\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java

\* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/TypeAnnotationNode.java

```
* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/ModuleOpenNode.java
*
/asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-tree-9-7-1-sources-1-jar/org/objectweb/asm/tree/ModuleExportNode.java
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\* /servlet-api-5-0-0-sources-jar/org/xipki/http/servlet/SslReverseProxyMode.java

\* /servlet-api-5-0-0-sources-jar/org/xipki/http/servlet/SimpleLruCache.java

\* /servlet-api-5-0-0-sources-jar/org/xipki/http/servlet/HttpServlet.java

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/servlet-api-5-0-0-sources-jar/org/xipki/http/servlet/ServletURI.java

\* /servlet-api-5-0-0-sources-jar/org/xipki/http/servlet/package-info.java

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: 1.5.0\_13 (Sun Microsystems Inc.)

Built-By: janb

Build-Jdk: 1.5.0\_13

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>

Bundle-RequiredExecutionEnvironment: J2SE-1.4

Specification-Version: 2.5

Bnd-LastModified: 1229016831353

Export-Package: javax.servlet.http;uses:="javax.servlet";version="2.5"

,javax.servlet;version="2.5",javax.servlet.resources;version="2.5",ja

vax.servlet.jsp.resources;version="2.5"

Bundle-Version: 2.5

Ignore-Package: javax.servlet.http,javax.servlet,javax.servlet.resourc  
es,javax.servlet.jsp.resources

Bundle-Name: Servlet Specification API

Bundle-Description: Servlet Specification API

Bundle-DocURL: <http://www.mortbay.com>

Originally-Created-By: 1.5.0\_13 (Sun Microsystems Inc.)

Bundle-Vendor: Mort Bay Consulting

Bundle-ManifestVersion: 2

Bundle-SymbolicName: org.mortbay.jetty.servlet-api

Tool: Bnd-0.0.238

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## Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

## Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

- \* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api

- \* javax.transaction:javax.transaction-api

- \* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

-----

## OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

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

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.  
Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.113 bctls-fips 2.0.19

### 1.113.1 Available under license :

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```
public static final ProtocolName WEBRTC_CONFIDENTIAL = asUtf8Encoding("c-webrtc");
```

Found in path(s):

\* /bctls-fips-2-0-19-sources-jar/org/bouncycastle/tls/ProtocolName.java

## 1.114 commons-fileupload 1.5

### 1.114.1 Available under license :

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## 1.116 jaxb-core 2.2.3

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## 4.8.3761

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\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java

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 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java  
 \*  
 /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java  
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 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java  
 \*  
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 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java  
 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java  
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 \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java  
 \* /netty-codec-socks-4-1-60-final-sources-



```

jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
* /netty-codec-socks-4-1-60-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
*
/netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java
* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java
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\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java  
\*  
/netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java  
\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java  
\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java  
\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java  
\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java  
\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java  
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\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java  
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\* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java  
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- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
- \*
- /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
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- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
- \*
- /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
- \* /netty-codec-socks-4-1-60-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java

## 1.121 servlet-api 3.1.0

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has  
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It is currently developed by a community of developers.

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## 1.127 tomcat-jasper-el 9.0.98

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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

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

## 1.129 saaj 1.3.19

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depot

layout\_version 1.0

vendor

tag SUN

title Sun Microsystems, Inc.

description "Java Enterprise System"

end

product

tag sun-saaj

title SOAP With Attachment API for Java

description "SOAP With Attachment API for Java 1.3"

copyright "Copyright 2005 Sun Microsystems, Inc. All rights reserved. Use is subject to license term"

revision @saaj.version@

number @datestamp@

architecture HP-UX\_B.11\_32/64

vendor\_tag SUN

machine\_type \*

os\_name HP-UX

os\_release \*

os\_version \*

is\_locatable true

directory /

fileset

tag sun-saaj

prerequisite sun-jaxp

prerequisite sun-jaf

file -m 0644 -o root -g root @libdir@/saaj-api.jar /opt/sun/share/lib/saaj-api.jar

file -m 0644 -o root -g root @libdir@/saaj-impl.jar /opt/sun/share/lib/saaj-impl.jar

end

end

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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
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- web-common\_4\_0.xsd
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may be obtained from:

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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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- web-app\_3\_1.xsd
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\*

/geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/FactoryConfigurationError.java

\* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/EventFilter.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLReporter.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/EndDocument.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/EntityReference.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/XMLEvent.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/namespace/NamespaceContext.java  
 \*  
 /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/Attribute.java  
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 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/NotationDeclaration.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/util/EventReaderDelegate.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/EntityDeclaration.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/util/XMLEventAllocator.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/Namespace.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/StartElement.java  
 \*  
 /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLStreamWriter.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/Characters.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/XMLStreamException.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/FactoryLocator.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/StartDocument.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/util/XMLEventConsumer.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/XMLConstants.java  
 \*  
 /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-jar/javax/xml/stream/events/Comment.java  
 \* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-

```

jar/javax/xml/stream/util/StreamReaderDelegate.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/XMLOutputFactory.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/XMLEventWriter.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/XMLInputFactory.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/XMLEventReader.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/XMLResolver.java
*
/geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/XMLStreamReader.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/Location.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
jar/javax/xml/stream/XMLEventFactory.java
* /geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
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jar/javax/xml/stream/events/EndElement.java
*
/geronimo-stax-api-1-0-spec-1-0-1-sources-jar-zip/geronimo-stax-api-1-0-spec-1-0-1-sources-
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# 1.137 commons-configuration 1.8

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\*/

Found in path(s):

\* /dom4j-2-1-4-sources-jar/org/dom4j/tree/NamespaceStack.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/io/ElementStack.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/tree/FilterIterator.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/swing/BranchTreeNode.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/Comment.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/util/UserDataElement.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/io/DOMSAXContentHandler.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultComment.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/util/XMLErrorHandler.java

\* /dom4j-2-1-4-sources-jar/org/dom4j/io/DOMDocumentResult.java

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- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/RuleSet.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/xpath/DefaultXPath.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/PruningElementStack.java
- \*
- /dom4j-2-1-4-sources-jar/org/dom4j/datatype/InvalidSchemaException.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/ProcessingInstruction.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/Document.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBWriter.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractCharacterData.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/PruningDispatchHandler.java
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- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractDocumentType.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/DocumentType.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/XMLResult.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMComment.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dtd/AttributeDecl.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXEventRecorder.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultNamespace.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/JAXPHelper.java
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- /dom4j-2-1-4-sources-jar/org/dom4j/bean/BeanMetaData.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/datatype/NamedTypeResolver.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/pattern/NodeTypePattern.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dtd/InternalEntityDecl.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/QName.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dtd/ExternalEntityDecl.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/Attribute.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultAttribute.java
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- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractEntity.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXModifyElementHandler.java

- \* /dom4j-2-1-4-sources-jar/org/dom4j/Entity.java
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- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultCDATA.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/XPP3Reader.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/swing/XMLTableModel.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/IllegalAddException.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/xpath/DefaultNamespaceContext.java
- \*
- /dom4j-2-1-4-sources-jar/org/dom4j/datatype/DatatypeElementFactory.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractCDATA.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractComment.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/FlyweightComment.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/UserDataAttribute.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/NullAction.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/datatype/DatatypeAttribute.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/QNameCache.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/SimpleSingleton.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/Visitor.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXWriter.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/NonLazyElement.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMDocumentType.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXModifier.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/IndexedElement.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/STAXEventWriter.java
- \*
- /dom4j-2-1-4-sources-jar/org/dom4j/XPathException.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/swing/XMLTableDefinition.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/pattern/DefaultPattern.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/ElementIterator.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/FlyweightAttribute.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/FlyweightCDATA.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/ProxyDocumentFactory.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/UserDataDocumentFactory.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMAttributeNodeMap.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/BackedList.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/bean/BeanDocumentFactory.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/swing/LeafTreeNode.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/Mode.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/IndexedDocumentFactory.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/bean/BeanAttributeList.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBModifier.java
- \*
- /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXModifyException.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractDocument.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractProcessingInstruction.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/OutputFormat.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/Pattern.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/swing/DocumentTreeModel.java

- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractAttribute.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMAttribute.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/NodeFilter.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/RuleManager.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/DocumentResult.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/NodeComparator.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dtd/ElementDecl.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/ContentListFacade.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractNode.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/XPPReader.java
- \*
- /dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBReader.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/ElementHandler.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultEntity.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/NamespaceCache.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXModifyContentHandler.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXValidator.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/BaseElement.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/SingletonStrategy.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/DispatchHandler.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMElement.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBRuntimeException.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/ElementModifier.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXContentHandler.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBObjectModifier.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultDocument.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/Element.java
- \*
- /dom4j-2-1-4-sources-jar/org/dom4j/tree/FlyweightEntity.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/datatype/SchemaParser.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBSupport.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/io/DocumentSource.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMProcessingInstruction.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMText.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultText.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/jaxb/JAXBObjectHandler.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/Stylesheet.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/PerThreadSingleton.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/datatype/DatatypeDocumentFactory.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/CharacterData.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/DocumentFactory.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultElement.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultDocumentType.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/rule/Rule.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/DocumentException.java
- \*
- /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractText.java
- \* /dom4j-2-1-4-sources-jar/org/dom4j/util/AttributeHelper.java

```

* /dom4j-2-1-4-sources-jar/org/dom4j/XPath.java
* /dom4j-2-1-4-sources-jar/org/dom4j/Node.java
* /dom4j-2-1-4-sources-jar/org/dom4j/Namespace.java
* /dom4j-2-1-4-sources-jar/org/dom4j/tree/DefaultProcessingInstruction.java
* /dom4j-2-1-4-sources-jar/org/dom4j/tree/AbstractElement.java
* /dom4j-2-1-4-sources-jar/org/dom4j/io/STAXEventReader.java
* /dom4j-2-1-4-sources-jar/org/dom4j/Text.java
* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMDocumentFactory.java
* /dom4j-2-1-4-sources-jar/org/dom4j/VisitorSupport.java
* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMNodeHelper.java
* /dom4j-2-1-4-sources-jar/org/dom4j/bean/BeanAttribute.java
* /dom4j-2-1-4-sources-jar/org/dom4j/dom/DOMCDATA.java
* /dom4j-2-1-4-sources-jar/org/dom4j/swing/XMLTableColumnDefinition.java
* /dom4j-2-1-4-sources-jar/org/dom4j/bean/BeanElement.java
*
* /dom4j-2-1-4-sources-jar/org/dom4j/io/DOMWriter.java
* /dom4j-2-1-4-sources-jar/org/dom4j/tree/ElementNameIterator.java
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\* /dom4j-2-1-4-sources-jar/org/dom4j/xpp/ProxyXmlStartTag.java  
 \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXHelper.java  
 \* /dom4j-2-1-4-sources-jar/org/dom4j/io/XMLWriter.java  
 \* /dom4j-2-1-4-sources-jar/org/dom4j/io/SAXReader.java  
 \* /dom4j-2-1-4-sources-jar/org/dom4j/DocumentHelper.java

## 1.140 swagger-annotations 1.6.11

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Manifest-Version: 1.0

Created-By: Maven JAR Plugin 3.3.0

Build-Jdk-Spec: 11

Automatic-Module-Name: io.swagger.annotations

implementation-version: 1.6.11

mode: development

package: io.swagger

url: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-Developers: fehguy;email="fehguy@gmail.com";name="Tony Tam"

Bundle-DocURL: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>

Bundle-License: "Apache License 2.0";link="http://www.apache.org/licenses/LICENSE-2.0.html"

Bundle-ManifestVersion: 2

Bundle-Name: swagger-annotations

Bundle-SCM: url="https://github.com/swagger-api/swagger-core/modules/swagger-annotations",connection="scm:git:git@github.com:swagger-api/swagger-annotations"

```
r-core.git/modules/swagger-annotations",developer-connection="scm:git:g
it@github.com:swagger-api/swagger-core.git/modules/swagger-annotations"
,tag=HEAD
Bundle-SymbolicName: io.swagger.swagger-annotations
Bundle-Version: 1.6.11
Export-Package: io.swagger.annotations;version="1.6.11"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
```

Found in path(s):

\* /swagger-annotations-1-6-11-1-jar/META-INF/MANIFEST.MF

## 1.141 jandex 2.4.2.Final

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\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ModuleInfo.java

\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfo.java

\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInternal.java

\*

/jandex-2-4-2-final-sources-jar/org/jboss/jandex/RecordComponentInfoGenerator.java

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- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInfo.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/DotName.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Type.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInternal.java
- \*
- /jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationTarget.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/NameTable.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/JarIndexer.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationValue.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexView.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationInstance.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/CompositeIndex.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Main.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Result.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriter.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/JandexAntTask.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassInfo.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReader.java
- \*
- /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderV1.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassType.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/PackedDataOutputStream.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Index.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterInfo.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfo.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterV1.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/PackedDataInputStream.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/PrimitiveType.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/StrongInternPool.java
- \* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Indexer.java

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\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderV2.java

\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterV2.java

\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/VoidType.java

\*

/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java

\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java

\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java

\* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ThrowsTypeTarget.java

```

* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ArrayType.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/WildcardType.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/ParameterizedType.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeVariable.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeParameterTypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/GenericSignatureParser.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInternal.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterImpl.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderImpl.java
*
/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationTargetFilterCollection.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/Utils.java
* /jandex-2-4-2-final-sources-jar/org/jboss/jandex/EmptyTypeTarget.java

```

## 1.142 json-lib 2.2.3

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- \* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSONArray.java
- \*
- /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/JSONTokener.java
- \* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSONObject.java
- \* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/JSONBuilder.java

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Found in path(s):

- \* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSONFunction.java
- \* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/JsDateJsonBeanProcessor.java
- \* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSONSerializer.java

```

* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/DefaultDefaultValueProcessor.java
*
/json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/PropertySetStrategy.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/PropertyFilter.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/regexp/RegexpUtils.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/EnumMorpher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/JsonBeanProcessorMatcher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JsonConfig.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/filters/FalsePropertyFilter.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/WebUtils.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/groovy/JsonSlurper.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/JsonValueProcessorMatcher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/groovy/JsonGroovyBuilder.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/filters/CompositePropertyFilter.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/filters/TruePropertyFilter.java
*
/json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/NewBeanInstanceStrategy.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/test/JSONAssert.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/JsonVerifier.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSON.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSONException.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/filters/OrPropertyFilter.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/PropertyExclusionClassMatcher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/regexp/RegexpMatcher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/JsonValueProcessor.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/JsDateJsonValueProcessor.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/PropertyNameProcessorMatcher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/JsonBeanProcessor.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/WebHijackPreventionStrategy.java
*
/json-lib-2-2-3-jdk15-sources-zip/net/sf/json/regexp/JdkRegexpMatcher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/filters/NotPropertyFilter.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/AbstractJSON.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/JSONUtils.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/JsonEventListener.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/JSONString.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/JavalIdentifierTransformer.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/xml/JSONTypes.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/filters/MappingPropertyFilter.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/DefaultValueProcessorMatcher.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/DefaultValueProcessor.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/util/CycleDetectionStrategy.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/regexp/Perl5RegexpMatcher.java
*
/json-lib-2-2-3-jdk15-sources-zip/net/sf/json/filters/AndPropertyFilter.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/xml/XMLSerializer.java
* /json-lib-2-2-3-jdk15-sources-zip/net/sf/json/processors/PropertyNameProcessor.java

```

# 1.143 antlr4-annotations 4.3

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 */
```

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```
* /antlr4-annotations-4-3-sources-zip/antlr4-annotations-4-3-sources-jar/org/antlr/v4/runtime/misc/NotNull.java
* /antlr4-annotations-4-3-sources-zip/antlr4-annotations-4-3-sources-jar/org/antlr/v4/runtime/misc/Nullable.java
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- \* /antlr4-annotations-4-3-sources-zip/antlr4-annotations-4-3-sources-  
 jar/org/antlr/v4/runtime/misc/NullUsageProcessor.java

## 1.144 httpcomponents-core 5.2

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Json.NET

<http://www.newtonsoft.com/products/json/>

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Description:

The Json.NET library makes working with JSON formatted data in .NET simple. Quickly read and write JSON using the JsonSerializer and JsonReader or serialize your .NET objects with a single method call using the JsonSerializer. Json.NET's features include:

- Lightning fast JsonSerializer and JsonReader
- The JsonSerializer for quickly converting your .NET objects to JSON and back again
- Json.NET can optionally produce well formatted, indented JSON for debugging or display
- Attributes like JsonIgnore and JsonProperty can be added to a class to customize how a class is serialized
- Ability to convert JSON to and from XML

#### Instructions:

1. Extract Newtonsoft.Json.dll and Newtonsoft.Json.xml from the archive's /bin directory into your own applications.
2. Add a reference to Newtonsoft.Json.dll within Visual Studio.NET to your project.

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<http://www.icsharpcode.net/opensource/sharpziplib/>

MSDAAB

<http://msdn.microsoft.com/en-us/library/aa480459.aspx>

DotNetOpenID

<http://code.google.com/p/dotnetopenid/>

SolPart

<http://www.solpart.com>

CountryListBox

<http://www.codeproject.com/KB/custom-controls/countrylistbox.aspx>

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jQuery Boxy Plugin

<http://plugins.jquery.com/project/boxy>

YUI Library

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Ocean Browser Detection

<http://owenbrady.net/browsercaps/>

mbUnit

<http://www.mbunit.com/>

Moq

<http://code.google.com/p/moq/>

WatiN

<http://watin.sourceforge.net>

Msbuild Community Tasks

<http://msbuildtasks.tigris.org/>

Anthem.net

Used as the Ajax provider.

License Type: Public Domain license

License Link: <http://sourceforge.net/projects/anthem-dot-net/>

Brett NeatUploads

Used

as an optional component to enable file uploads up to 2GB

License Type: LGPL

License Link: <http://www.brettle.com/neatupload#License>

OpenWYSIWYG (javascript)

Used as the text editor

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License Link: <http://www.openwebware.com> in that page it references the LGPL Open Source license.

VideoBox (javascript)

Used to render the lightbox effect that shows media files.

License Type: MIT

License Link(s): link to license on site: <http://videobox-lb.sourceforge.net> to <http://www.opensource.org/licenses/mit-license.php>

MooTools (javascript)

Used as an additional component by VideoBox

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SwfObject (javascript)

Used as an additional component by VideoBox

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FLV-Player (flash)

Flash player used

to play flv files

License Type: No License Information, freely downloadable.

Link to Site: <http://oos.moxiecode.com/flvplayer/>

SearchSpider

Used as the spider engine for the module.

License Type: LGPL

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Lucene.net

Lucene.Net is a port of the Lucene search engine library, written in C# and targeted at .NET runtime users.

<http://nuget.org/packages/lucene.net> <http://lucenenet.apache.org/>

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Lucene.net.contrib

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#### Highlighter

Used to highlight

search results <http://search.cpan.org/~tbusch/Lucene-Search-Highlight-0.01/lib/Lucene/Search/Highlight.pm>

License Type: Perl

License Link: [http://search.cpan.org/~tbusch/Lucene-Search-Highlight-0.01/lib/Lucene/Search/Highlight.pm#COPYRIGHT\\_AND\\_LICENSE](http://search.cpan.org/~tbusch/Lucene-Search-Highlight-0.01/lib/Lucene/Search/Highlight.pm#COPYRIGHT_AND_LICENSE)

#### jquery-ui

Used in many places in UI

License Type: MIT

License Link: <http://jquery-ui.googlecode.com/svn/tags/latest/MIT-LICENSE.txt>

#### log4net

Used to provide Instrumentation throughout the core

License Type: Apache

License Link: <http://logging.apache.org/log4net/license.html>

#### Sharepoint Logging Library

Used to provide logging in Sharepoint connector

License Type: LGPL

License Link: <http://splogginglibrary.codeplex.com/license>

#### hoverintent

Used throughout UI

License Type: MIT or GPL

License Link: <http://cherne.net/brian/resources/jquery.hoverIntent.js>

#### jQuery Cycle

Used throughout UI

License Type: MIT or GPL

License Link: <https://raw.github.com/malsup/cycle/master/jquery.cycle.all.js>

#### jQuery Templates

Used throughout UI

License Type:

MIT or GPL

License Link: <http://ajax.aspnetcdn.com/ajax/jquery.templates/beta1/jquery.tmpl.js>

#### 51Degrees.mobi

Used throughout UI

License Type: Mozilla Public License 1.1 (MPL)

License Link: <http://51degrees.codeplex.com/license>

#### Client Dependency Framework

Combining, compressing & minifying JavaScript and CSS files

License Type: Microsoft Public License (Ms-PL)

License Link: <http://clientdependency.codeplex.com/license>

Knockout Javascript library

Used throughout UI

License Type: MIT

License Link: <http://knockoutjs.com/>

jQuery Tokeninput

Used throughout UI

License Type: MIT or GPL

License Link: <http://loopj.com/jquery-tokeninput/>

history.js

Used in social messaging module

License link: <https://github.com/balupton/history.js/blob/master/license.txt>

HtmlDiff

Used for Html version comparison

License Type: MIT

License link: <https://raw.github.com/Rohland/htmldiff.net/master/license.txt>

\* hoverIntent r6 // 2011.02.26 // jQuery 1.5.1+

\* <<http://cherne.net/brian/resources/jquery.hoverIntent.html>>

\*

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(<http://aspalliance.com/bbilbro/DesktopDefault.aspx?tabindex=1&tabid=7&ArticleID=6> )

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- Personalization architecture from MSDN magazine ( Cutting Edge - March 2004 )

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)

- move ViewState to bottom of page for better search engine spidering

Jonathan de Halleux ( <http://www.dotnetwiki.org> )

- PA Installer

David Haggard ( <http://www.newcovenant.com> )

- function to obfuscate sensitive data to prevent collection by robots and spiders and crawlers

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- RSS Generator ( Visual Studio Magazine - April 2004 )

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- File Manager UI ( based on DNNE Explorer )

Michael Beller ( <http://www.lightshippartners.com> )

- Database model for abstraction and refactoring of the core database

Sebastian Leupold ( <http://www.gamma-concept.de> )

- German resource files

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<root>
```

```
 <xsd:schema id="root" xmlns="" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">
```

```
 <xsd:element name="root" msdata:IsDataSet="true">
```

```
 <xsd:complexType>
```

```
 <xsd:choice maxOccurs="unbounded">
```

```
 <xsd:element name="data">
```

```
 <xsd:complexType>
```

```
 <xsd:sequence>
```

```
 <xsd:element name="value" type="xsd:string" minOccurs="0" msdata:Ordinal="1" />
```

```
 <xsd:element name="comment" type="xsd:string" minOccurs="0" msdata:Ordinal="2" />
```

```
 </xsd:sequence>
```

```
 <xsd:attribute name="name" type="xsd:string" />
```

```
 <xsd:attribute name="type" type="xsd:string" />
```

```
 <xsd:attribute name="mimetype" type="xsd:string" />
```

```
 </xsd:complexType>
```

```
 </xsd:element>
```

```
 <xsd:element name="resheader">
```

```
 <xsd:complexType>
```

```
 <xsd:sequence>
```

```
 <xsd:element name="value" type="xsd:string" minOccurs="0" msdata:Ordinal="1" />
```

```
 </xsd:sequence>
```

```
 <xsd:attribute name="name" type="xsd:string" use="required" />
```

```
 </xsd:complexType>
```

```
 </xsd:element>
```

```
 </xsd:choice>
```

```
 </xsd:complexType>
```

```
</xsd:element>
```

```
</xsd:schema>
```

```
<resheader name="ResMimeType">
```

```
 <value>text/microsoft-resx</value>
```

```

</resheader>
<resheader name="Version">
 <value>1.0.0.0</value>
</resheader>
<resheader name="Reader">
 <value>System.Resources.ResXResourceReader, System.Windows.Forms, Version=1.0.3300.0,
Culture=neutral, PublicKeyToken=b77a5c561934e089</value>
</resheader>
<resheader name="Writer">

 <value>System.Resources.ResXResourceWriter, System.Windows.Forms, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b77a5c561934e089</value>
</resheader>
<data name="Copyright.Text">
 <value>Copyright (c) {0} {1}</value>
</data>
</root>
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\* jQuery Plugin: Tokenizing Autocomplete Text Entry

\* Version 1.6.0

\*

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jQuery File Upload Plugin

<https://github.com/blueimp/jQuery-File-Upload>

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<?xml version="1.0" encoding="UTF-8"?>

<root>

<xsd:schema id="root" xmlns="" xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:msdata="urn:schemas-microsoft-com:xml-msdata">

<xsd:element name="root" msdata:IsDataSet="true">

<xsd:complexType>

<xsd:choice maxOccurs="unbounded">

<xsd:element name="data">

<xsd:complexType>

<xsd:sequence>

<xsd:element name="value" type="xsd:string" minOccurs="0" msdata:Ordinal="1" />

<xsd:element name="comment" type="xsd:string" minOccurs="0" msdata:Ordinal="2" />

</xsd:sequence>

<xsd:attribute name="name" type="xsd:string" />

<xsd:attribute name="type" type="xsd:string" />

<xsd:attribute name="mimetype" type="xsd:string" />

</xsd:complexType>

</xsd:element>

<xsd:element name="resheader">

<xsd:complexType>

<xsd:sequence>

```

 <xsd:element name="value"
type="xsd:string" minOccurs="0" msdata:Ordinal="1" />
 </xsd:sequence>
 <xsd:attribute name="name" type="xsd:string" use="required" />
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:complexType>
</xsd:element>
</xsd:schema>
<resheader name="ResMimeType">
 <value>text/microsoft-resx</value>
</resheader>
<resheader name="Version">
 <value>1.0.0.0</value>
</resheader>
<resheader name="Reader">
 <value>System.Resources.ResXResourceReader, System.Windows.Forms, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b77a5c561934e089</value>
</resheader>
<resheader name="Writer">
 <value>System.Resources.ResXResourceWriter, System.Windows.Forms, Version=1.0.3300.0, Culture=neutral,
PublicKeyToken=b77a5c561934e089</value>
</resheader>
<data name="Copyright.Text">
 <value>Tous droits rservez © {0} {1}</value>
</data>
</root>

```

## 1.150 accessors-smart 2.4.8

### 1.150.1 Available under license :

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Found in path(s):

\* /accessors-smart-2-4-8-1-jar/META-INF/maven/net.minidev/accessors-smart/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1644737816481

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter setter  
 and constructor calls, accessors-smart use ASM to speed up those calls.  
 ls.



Bundle-DocURL: <https://urielch.github.io/>  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: accessors-smart  
Bundle-SymbolicName: net.minidev.accessors-smart  
Bundle-Vendor: Chemouni Uriel  
Bundle-Version: 2.4.8  
Created-By: Apache Maven Bundle Plugin  
Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4.8",net.minidev.asm.ex;version="2.4.8"  
Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.ex  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-5.1.1.202006162103

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\* /accessors-smart-2-4-8-1-jar/META-INF/MANIFEST.MF

# 1.151 asm 9.1

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\* /asm-9-1-sources-2-jar/org/objectweb/asm/signature/package.html  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/package.html

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Found in path(s):

\* /asm-9-1-sources-2-jar/org/objectweb/asm/ModuleWriter.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/FieldWriter.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/ClassWriter.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/SymbolTable.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/TypeReference.java  
\*  
/asm-9-1-sources-2-jar/org/objectweb/asm/Edge.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/RecordComponentVisitor.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/Opcodes.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/ClassReader.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/Handler.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/RecordComponentWriter.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/ByteVector.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/TypePath.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/MethodTooLargeException.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/CurrentFrame.java  
\*  
/asm-9-1-sources-2-jar/org/objectweb/asm/ConstantDynamic.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/ClassTooLargeException.java  
\* /asm-9-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java

- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Label.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Type.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Constants.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/ModuleVisitor.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/MethodWriter.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Frame.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Context.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Attribute.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Handle.java
- \* /asm-9-1-sources-2-jar/org/objectweb/asm/Symbol.java

## 1.152 netty-codec-http 4.1.60.Final

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Found in path(s):

- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java

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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java

\* /netty-codec-http-4-1-60-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java

\* /netty-codec-http-4-1-60-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java

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\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java

\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java

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\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java  
 \*  
 /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpObject.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultHttpObject.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java  
 \*  
 /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/package-info.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpObjectDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java  
 \*  
 /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/package-info.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspMethods.java

\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpResponse.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpResponseStatus.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java  
 \*  
 /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpContentDecompressor.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/Cookie.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/Attribute.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspVersions.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpVersion.java  
 \*  
 /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpRequest.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaders.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/HttpData.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpServerCodec.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpContent.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultHttpResponse.java  
 \*  
 /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/LastHttpContent.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpMessage.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpContentEncoder.java  
 \*  
 /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpRequestDecoder.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java  
 \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java

```

* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpHeaders.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultCookie.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpObjectEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpClientCodec.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java
*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpResponseEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdySession.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpRequestEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtp/package-info.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/MixedAttribute.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java
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- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
- \*
- /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
- \* /netty-codec-http-4-1-60-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java
- \*
- /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
- \*
- /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
- \* /netty-codec-http-4-1-60-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
- \* /netty-codec-http-4-1-60-final-sources-
- jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
- \* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java

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*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
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```

* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java

```

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* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
ava
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
*
/netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValues.java
*
/netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
*

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```
/netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.
java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
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* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cors/CorsHandler.java
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\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java  
\*  
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java  
\*  
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java  
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\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java

\*  
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java  
\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java

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* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
*
/netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
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```

```
Found in path(s):
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java
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\* /netty-codec-http-4-1-60-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakeException.java

\* /netty-codec-http-4-1-60-final-sources-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java

\* /netty-codec-http-4-1-60-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java

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Found in path(s):

```
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /netty-codec-http-4-1-60-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
```

## 1.153 apache-log4j 2.24.3

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# 1.154 jetty-util-ajax 9.4.57.v20241219

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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

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

-----

## 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

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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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## 1.155 tomcat-i18n-ja 9.0.98

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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
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- web-common\_3\_0.xsd
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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
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
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- web-app\_3\_0.xsd

- web-common\_3\_0.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
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- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
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- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

may be obtained from:

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# 1.157 commons-logging 1.1.3

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- \* /netty-handler-proxy-4-1-60-final-sources-jar/io/netty/handler/proxy/package-info.java
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- 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
- web-app\_3\_0.xsd
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Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd

- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
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for JSON written by Robert Fischer.  
<https://github.com/RobertFischer/json-parser>

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration  
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages  
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The org.apache.catalina.tribes.membership.cloud package contains derivative work originating from the jgroups project.

<https://github.com/jgroups-extras/jgroups-kubernetes>

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- 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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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd

- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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# 1.161 jetty-jsp 7.5.3.v20111011

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## 1.162 jersey-client 1.19.4

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- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/UniformInterfaceException.java
- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/filter/ClientFilter.java
- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/GenericType.java
- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/filter/package-info.java
- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/PartialRequestBuilder.java
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- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ClientHandler.java
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* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ClientHandlerException.java
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/jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/filter/OnStartConnectionListener.java
* /jersey-client-1-19-4-sources-jar/com/sun/jersey/client/urlconnection/HttpURLConnectionFactory.java
* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/config/package-info.java
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* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/AsyncUniformInterface.java
* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/AbstractClientRequestAdapter.java
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- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/AsyncViewResource.java
- \* /jersey-client-1-19-4-sources-jar/com/sun/jersey/api/client/ClientResponse.java

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## 1.164 jetty-security 9.4.57.v20241219

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Eclipse

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

- \* javax.servlet:javax.servlet-api

- \* javax.annotation:javax.annotation-api

- \* javax.transaction:javax.transaction-api

- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

-----

OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

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

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## 1.165 jsr305 3.0.2

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```
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 * Official home: http://www.jcip.net
 */
```

Found in path(s):

```
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/Immutable.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/GuardedBy.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/ThreadSafe.java
```

## 1.166 httpcomponents-core 4.4.13

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# 1.167 system.directoryservices 4.8.3761

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\* /gson-2-10-sources-jar/com/google/gson/FieldNamingStrategy.java

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\* /gson-2-10-sources-jar/com/google/gson/JsonDeserializationContext.java

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\*



/gson-2-10-sources-jar/com/google/gson/GsonBuilder.java  
\* /gson-2-10-sources-jar/com/google/gson/JsonParseException.java  
\* /gson-2-10-sources-jar/com/google/gson/annotations/SerializedName.java  
\* /gson-2-10-sources-jar/com/google/gson/Gson.java  
\* /gson-2-10-sources-jar/com/google/gson/reflect/TypeToken.java  
\* /gson-2-10-sources-jar/com/google/gson/JsonNull.java

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\* /gson-2-10-sources-jar/com/google/gson/FieldAttributes.java  
\* /gson-2-10-sources-jar/com/google/gson/JsonStreamParser.java

\* /gson-2-10-sources-jar/com/google/gson/LongSerializationPolicy.java

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\* /gson-2-10-sources-jar/com/google/gson/stream/JsonScope.java

\* /gson-2-10-sources-jar/com/google/gson/stream/JsonToken.java

\* /gson-2-10-sources-jar/com/google/gson/stream/MalformedJsonException.java

\* /gson-2-10-sources-jar/com/google/gson/stream/JsonWriter.java

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\* /gson-2-10-sources-jar/com/google/gson/TypeAdapterFactory.java

\* /gson-2-10-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java

\* /gson-2-10-sources-jar/com/google/gson/TypeAdapter.java

\* /gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapters.java

\*

/gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java

\* /gson-2-10-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java

\* /gson-2-10-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java

\* /gson-2-10-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

\* /gson-2-10-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java

\* /gson-2-10-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java  
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\* /gson-2-10-sources-jar/com/google/gson/internal/LazilyParsedNumber.java

\* /gson-2-10-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

\* /gson-2-10-sources-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java

\* /gson-2-10-sources-jar/com/google/gson/internal/ConstructorConstructor.java

\*

/gson-2-10-sources-jar/com/google/gson/internal/UnsafeAllocator.java  
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* /gson-2-10-sources-jar/com/google/gson/internal/Streams.java
* /gson-2-10-sources-jar/com/google/gson/JsonSyntaxException.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/EncodedByteArrayConverter.java

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\* Created on 07. November 2007 by Joerg Schaible

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AnnotationMapper.java

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\* Created on 08. January 2014 by Joerg Schaible, factored out from SunUnsafeReflectionProvider

\*/

Found in path(s):

\* /xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AnnotationConfiguration.java



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 * Created on 7. February 2016 by Aaron Johnson
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/PathConverter.java

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```
-->
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/package.html

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java

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 * Created on 09. October 2008 by Joerg Schaible
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java

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 * Created on 24. July 2004 by Joe Walnes
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/GregorianCalendarConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java

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 * Created on 20. February 2006 by Mauro Talevi
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AttributeMapper.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java

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 * Created on 22. February 2017 by Joerg Schaible
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```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /xstream-1-4-20-sources-1-
jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
```

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* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/AbstractCollectionConverter.java
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/SecurityUtils.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/Annotations.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java

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Found in path(s):

- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java

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- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java

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- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/PackageAliasingMapper.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamImplicit.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/ArrayIterator.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/JavaClassConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/WeakCache.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/SystemClockConverter.java

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`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementConverter.java`  
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`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/WstxDriver.java`  
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`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/RegexPatternConverter.java`  
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/CharConverter.java

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```
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 * Created on 29. September 2003 by Joe Walnes
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java

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 *
 * Created on 13. January 2017 by Matej Cimborá
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java

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 * Created on 07. March 2004 by Joe Walnes
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Dom4JDriver.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/ArrayMapper.java

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\* Created on 11. October 2011 by Joerg Schaible

\*/

Found in path(s):

\* /xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java

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\* Created on 06. February 2005 by Joe Walnes



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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/AtomicReferenceConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/DefaultConverterLookup.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/DynamicProxyMapper.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/DurationConverter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java

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\* /xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/AtomicBooleanConverter.java

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 *
 * Created on 06. May 2009 by Joerg Schaible
 */
```

Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/ReferencingMarshallingContext.java`

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 * Created on 27. July 2013 by Joerg Schaible
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Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java`

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 */
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Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java`

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 *
 * Created on 05. May 2017 by Joerg Schaible, copied from ISO8601GregorianCalendarConverter
 */
```

Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/ISO8601JodaTimeConverter.java`

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 *
 * Created on 08. January 2014 by Joerg Schaible, renamed from Sun14ReflectionProvider
 */
```

Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java`

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 * Created on 13. June 2006 by Guilherme Silveira
 */
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`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/XmlMap.java`

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 */
```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XomReader.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/DomWriter.java
```

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```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/DataHolder.java
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 */
```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/naming/NameCoder.java
```

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```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/NoPermission.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/NullPermission.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
```

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 * Created on 20. November 2008 by Joerg Schaible
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```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java
```

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```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/CharArrayConverter.java
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/StatefulWriter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/DurationConverter.java  
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java  
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\* Created on 15. February 2006 by Mauro Talevi  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/DomDriver.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java

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- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java
- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java

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- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/StringCodec.java
- \* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/path/PathTracker.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XppDomReader.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/DomReader.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java  
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```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java
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* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractPullReader.java
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/SubjectConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/TreeMarshaller.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/OptionalIntConverter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/OptionalLongConverter.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/CollectionConverter.java  
No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/TreeMapConverter.java  
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamImplicitCollection.java  
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/ConverterLookup.java  
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumSingleValueConverter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/ObjectIdDictionary.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/AbstractReferenceUnmarshaller.java  
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/OptionalDoubleConverter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/LambdaConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/CompactWriter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumMapConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/EnumMapper.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/InstantConverter.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/StringConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/BaseException.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/FieldDictionary.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/ClassLoaderReference.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/package.html  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/package.html  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamConverter.java  
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Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
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 */
```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/DocumentReader.java
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java
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```

```
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 *
 * Created on 14. August 2004 by Joe Walnes
 */
/**
 * A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
 * {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
 * SAX event flow from the XStream serialization of a list of list of Java objects.
 * <p>
 * As a
 * custom SAX parser, this class ignores the arguments of the two standard parse methods ({@link
 * #parse(java.lang.String)}
 * and {@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
```

\* {@link #SOURCE\_OBJECT\_LIST\_PROPERTY} to define the list of objects to serialize.

\* </p>

\* <p>

\* Configuration of this SAX parser is achieved through the standard

\* {@link #setProperty SAX property mechanism}. While specific setter methods require direct

\* access to the parser instance, SAX properties support configuration settings to be propagated

\* through a chain of {@link org.xml.sax.XMLFilter filters} down to the underlying parser

\* object.

\* </p>

\* <p>

\* This mechanism shall be used to configure the

\* {@link #SOURCE\_OBJECT\_LIST\_PROPERTY objects to be serialized} as well as the

\* {@link #CONFIGURED\_XSTREAM\_PROPERTY XStream facade}.

\* </p>

\*

\* @author Laurent Bihanic

\*/

/\*\*

    \* Sets the value of a property.

    \* <p>

    \* The property name is any fully-qualified URI. It is

    \* possible for an XMLReader to recognize a property name but

    \* to be unable to set its value.</p>

    \* <p>

    \* XMLReaders are not required to recognize setting any

    \* specific property names, though a core set is provided with

    \* SAX2.</p>

    \* <p>

    \* Some property values may be immutable or mutable only

    \* in specific contexts, such as before, during, or after

    \* a parse.</p>

    \* <p>

    \* This method is also the standard mechanism for setting

    \* extended handlers.</p>

    \* <p>

    \* <strong>Note</strong>: This implementation only supports two

    \* (proprietary) properties: {@link #CONFIGURED\_XSTREAM\_PROPERTY}

    \* and {@link #SOURCE\_OBJECT\_LIST\_PROPERTY}.</p>

    \*

    \* @param name the property name, which is a fully-qualified URI.

    \* @param value the requested value for the property.

    \* @throws SAXNotRecognizedException when the XMLReader does not

    \* recognize the property name.

    \* @throws SAXNotSupportedException when the XMLReader recognizes

    \* the property name but cannot set

    \* the requested value.

    \* @see #getProperty

```

*/
/**
 * Parses an XML document
from a system identifier (URI).
 * <p>
 * This method is a shortcut for the common case of reading a
 * document from a system identifier. It is the exact
 * equivalent of the following:</p>
 * <blockquote>
 * <pre>
 * parse(new InputSource(systemId));
 * </pre>
 * </blockquote>
 * <p>
 * If the system identifier is a URL, it must be fully resolved
 * by the application before it is passed to the parser.</p>
 * <p>
 * Note: As a custom SAX parser, this class
 * ignores the <code>systemId</code> argument of this method
 * and relies on the proprietary SAX property
 * { @link #SOURCE_OBJECT_LIST_PROPERTY }) to define the list of
 * objects to serialize.</p>
 *
 * @param systemId the system identifier (URI).
 * @throws SAXException Any SAX exception, possibly wrapping
 * another exception.
 * @see #parse(org.xml.sax.InputSource)
 */

```

Found in path(s):

```

*
/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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 */

```

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```

* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/Cloneables.java

```



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```

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/StaxWriter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/StaxDriver.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDomDriver.java

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 */
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java

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```

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java

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 *
 * Created on 22. October 2007 by Joerg Schaible
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/InitializationException.java

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```
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 *
 * Created on 26. September 2003 by Joe Walnes
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/DateConverter.java

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```
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 *
 * Created on 15.02.2011 by Joerg Schaible
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/ErrorHandler.java

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 *
 * Created on 03. May 2006 by Mauro Talevi
 */

```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
```

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

```

/*
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```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/XStream.java
```

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 */

```

Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Dom4JXmlWriter.java
```

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 * Created on 22. April 2006 by Mauro Talevi
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java

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 *
 * Created on 02. May 2009 by Joerg Schaible
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java

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```
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 * Created on 15. March 2004 by Joe Walnes
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java

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 * Created on 03. October 2005 by Joerg Schaible
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-

jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java

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 *
 * Created on 28. November 2022 by Joerg Schaible
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/AtomicLongConverter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/AtomicIntegerConverter.java

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 * Created on 10. April 2004 by Joe Walnes
-->
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/path/package.html

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/collections/MapConverter.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java



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 * Created on 2. January 2021 by Joerg Schaible
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java

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 *
 * Created on 15. August 2009 by Joerg Schaible
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java

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 * Created on 20. September 2007 by Joerg Schaible
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/ThreadSafePropertyEditor.java

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 * Created on 19. February 2017 by Joerg Schaible
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java

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 *
 * Created on 11. August 2011 by Joerg Schaible, code from XppDom.
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java

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 * Created on 15. March 2007 by Joerg Schaible
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/AbstractXmlFriendlyMapper.java  
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\* Created on 13. June 2006 by Guilherme Silveira  
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/StreamStrategy.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/MarshallingStrategy.java  
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 * Created on 08. July 2004 by Joe Walnes
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Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/FontConverter.java
```

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Found in path(s):

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
```

```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
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```
* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java
```

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/StreamException.java

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 * Created on 25. March 2004 by Joe Walnes
 */
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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/URLConverter.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/SqlTimestampConverter.java

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 * Created on 11. February 2017 by Joerg Schaible
 */
```

Found in path(s):

```
*/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
*/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
*/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/time/YearConverter.java
```

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 */
```

Found in path(s):

```
*/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/Dom4JReader.java
```

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/MapperWrapper.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/TraxSource.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/XStreamer.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/FastStack.java

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 * Created on 22. November 2004 by Mauro Talevi
 */
```

Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/ISO8601DateConverter.java`  
No license file was found, but licenses were detected in source scan.

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Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java`  
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 */
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Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java`  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/OptionalConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/SerializationMethodInvoker.java

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\*/

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java  
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\*  
\* Created on 12.10.2010 by Joerg Schaible, extracted from TreeSetConverter.  
\*/

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/PresortedSet.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java

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Found in path(s):

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamInclude.java

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Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/AnyTypePermission.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/TypePermission.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/SecurityMapper.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/NoTypePermission.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/LocaleConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java

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\* Created on 25. September 2013 by Joerg Schaible

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java

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\* Created on 12. February 2015 by Joerg Schaible, copied from  
c.t.x.converters.reflection.SerializationMemberInvoker.

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/SerializationMembers.java

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\* Created on 24. February 2016 by Joerg Schaible, factored out of ConversionException.

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/ErrorWritingException.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/SingleValueConverter.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java  
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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/InputManipulationException.java  
\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/security/AbstractSecurityException.java  
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\* Created on 28. June 2006 by Guilherme Silveira

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\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDomReader.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/XomWriter.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/JDomWriter.java

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: Apache Maven

Built-By: joehni

Build-Jdk: 1.8.0\_312

Specification-Title: XStream Core

Specification-Vendor: XStream

Implementation-Title: XStream Core

Implementation-Version: 1.4.20

Implementation-Vendor-Id: com.thoughtworks.xstream

Implementation-Vendor: XStream  
Bundle-License: BSD-3-Clause  
Bundle-ManifestVersion: 2  
Bundle-Name: XStream Core Sources  
Bundle-SymbolicName: xstream.sources  
Bundle-Vendor: XStream Sources  
Bundle-Version: 1.4.20  
Eclipse-SourceBundle: xstream;version=1.4.20  
Specification-Version: 1.4  
X-Build-OS: Linux  
X-Build-Time: 2022-12-23T23:21:05Z  
X-Builder: Maven 3.8.6  
X-Compile-Source: 1.4  
X-Compile-Target: 1.4

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\*

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\* the LICENSE.txt file.

\*

\* Created on 07. March 2004 by Joe Walnes

\*/

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java

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

```
/*
 * Copyright (C) 2007, 2009, 2011, 2016 XStream Committers.
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 *
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 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 10. April 2007 by Guilherme Silveira
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/reflection/SortableFieldKeySorter.java

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

```
/*
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 *
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 * the LICENSE.txt file.
 *
 * Created on 16. March 2004 by Joe Walnes
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/core/SequenceGenerator.java

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

```
/*
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 *
 * Created on 04. June 2006 by Joe Walnes
 */
```

Found in path(s):

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java

\* /xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java

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

```
/*
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 *
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 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 3. August 2010 by Joerg Schaible
 */
```

Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/converters/basic/URIConverter.java`

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

```
/*
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 *
 * Created on 14. October 2011 by Joerg Schaible
 */
```

Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java`

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

```
/*
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 *
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 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 08. April 2006 by Joerg Schaible
 */
```

Found in path(s):

`/xstream-1-4-20-sources-1-jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java`

# 1.171 async-http-client 2.12.3

## 1.171.1 Available under license :

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

```
This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.
#
The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to
identify "new" types. File extensions are also commonly used to indicate
content languages and encodings, so choose them carefully.
#
Internet media types should be registered as described in RFC 4288.
The registry is at <http://www.iana.org/assignments/media-types/>.
#
MIME type (lowercased) Extensions
=====
application/1d-interleaved-parityfec
application/3gpdash-qoe-report+xml
application/3gpp-ims+xml
application/a2l
#
application/activemessage
application/alto-costmap+json
application/alto-costmapfilter+json
application/alto-directory+json
application/alto-endpointcost+json
application/alto-endpointcostparams+json
application/alto-endpointprop+json
application/alto-endpointpropparams+json
application/alto-error+json
application/alto-networkmap+json
application/alto-networkmapfilter+json
application/aml
application/andrew-inset ez
application/applefile
application/applixware aw
application/atf
application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
application/atomdeleted+xml
application/atomicmail
application/atmsvc+xml atmsvc
```

# application/atxml  
# application/auth-policy+xml  
# application/bacnet-xdd+zip  
# application/batch-smtp  
# application/beep+xml  
# application/calendar+json  
# application/calendar+xml  
# application/call-completion  
# application/cals-1840  
# application/cbor  
# application/ccmp+xml  
application/ccxml+xml ccxml  
#  
application/cdfx+xml  
application/cdmi-capability cdmia  
application/cdmi-container cdmic  
application/cdmi-domain cdmid  
application/cdmi-object cdmio  
application/cdmi-queue cdmioq  
# application/cdni  
# application/cea  
# application/cea-2018+xml  
# application/cellml+xml  
# application/cfw  
# application/cms  
# application/cnrm+xml  
# application/coap-group+json  
# application/commonground  
# application/conference-info+xml  
# application/cpl+xml  
# application/csrattrs  
# application/csta+xml  
# application/cstadata+xml  
# application/csvm+json  
application/cu-seeme cu  
# application/cybercash  
# application/dash+xml  
# application/dashdelta  
application/davmount+xml davmount  
# application/dca-rft  
# application/dcd  
# application/dec-dx  
# application/dialog-info+xml  
# application/dicom  
# application/dii  
# application/dit  
# application/dns  
application/docbook+xml dbk

# application/dskpp+xml  
application/dssc+der dssc  
application/dssc+xml xdssc  
# application/dvcs  
application/ecmascript ecma  
#  
application/edi-consent  
# application/edi-x12  
# application/edifact  
# application/emergencycalldata.comment+xml  
# application/emergencycalldata.deviceinfo+xml  
# application/emergencycalldata.providerinfo+xml  
# application/emergencycalldata.serviceinfo+xml  
# application/emergencycalldata.subscriberinfo+xml  
application/emma+xml emma  
# application/emotionml+xml  
# application/encaprtp  
# application/epp+xml  
application/epub+zip epub  
# application/eshop  
# application/example  
application/exi exi  
# application/fastinfoset  
# application/fastsoap  
# application/fdt+xml  
# application/fits  
# application/font-sfnt  
application/font-tdpfr pfr  
application/font-woff woff  
# application/framework-attributes+xml  
application/gml+xml gml  
application/gpx+xml gpx  
application/gxf gxf  
# application/gzip  
# application/h224  
# application/held+xml  
# application/http  
application/hyperstudio stk  
# application/ibe-key-request+xml  
# application/ibe-pkg-reply+xml  
# application/ibe-pp-data  
#  
application/iges  
# application/im-iscomposing+xml  
# application/index  
# application/index.cmd  
# application/index.obj  
# application/index.response

# application/index.vnd  
application/inkml+xml ink inkml  
# application/iotp  
application/ipfix ipfix  
# application/ipp  
# application/isup  
# application/its+xml  
application/java-archive jar  
application/java-serialized-object ser  
application/java-vm class  
application/javascript js  
# application/jose  
# application/jose+json  
# application/jrd+json  
application/json json  
# application/json-patch+json  
# application/json-seq  
application/jsonml+json jsonml  
# application/jwk+json  
# application/jwk-set+json  
# application/jwt  
# application/kpml-request+xml  
# application/kpml-response+xml  
# application/ld+json  
# application/link-format  
# application/load-control+xml  
application/lost+xml lostxml  
# application/lostsync+xml  
# application/lxf  
application/mac-binhex40 hqx  
application/mac-compactpro cpt  
# application/macwriteii  
application/mads+xml mads  
application/marc mrc  
application/marcxml+xml mrcx  
application/mathematica ma  
nb mb  
application/mathml+xml mathml  
# application/mathml-content+xml  
# application/mathml-presentation+xml  
# application/mbms-associated-procedure-description+xml  
# application/mbms-deregister+xml  
# application/mbms-envelope+xml  
# application/mbms-msk+xml  
# application/mbms-msk-response+xml  
# application/mbms-protection-description+xml  
# application/mbms-reception-report+xml  
# application/mbms-register+xml



```

application/mbms-register-response+xml
application/mbms-schedule+xml
application/mbms-user-service-description+xml
application/mbox mbox
application/media-policy-dataset+xml
application/media_control+xml
application/mediaservercontrol+xml mscml
application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
application/mf4
application/mikey
application/mods+xml mods
application/moss-keys
#
 application/moss-signature
application/mosskey-data
application/mosskey-request
application/mp21 m21 mp21
application/mp4 mp4s
application/mpeg4-generic
application/mpeg4-iod
application/mpeg4-iod-xmt
application/mrb-consumer+xml
application/mrb-publish+xml
application/msc-ivr+xml
application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
application/nasdata
application/news-checkgroups
application/news-groupinfo
application/news-transmission
application/nlsml+xml
application/nss
application/ocsp-request
application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
application/odx
application/oebps-package+xml opf
application/ogg ogx
application/omdoc+xml omdoc
application/onenote onetoc onetoc2 onetmp onepkg
application/oxps oxps
application/p2p-overlay+xml
application/parityfec

```

application/patch-ops-error+xml xer  
application/pdf pdf  
#  
application/pdx  
application/pgp-encrypted pgp  
# application/pgp-keys  
application/pgp-signature asc sig  
application/pics-rules prf  
# application/pidf+xml  
# application/pidf-diff+xml  
application/pkcs10 p10  
# application/pkcs12  
application/pkcs7-mime p7m p7c  
application/pkcs7-signature p7s  
application/pkcs8 p8  
application/pkix-attr-cert ac  
application/pkix-cert cer  
application/pkix-crl crl  
application/pkix-pkipath pkipath  
application/pkixcmp pki  
application/pls+xml pls  
# application/poc-settings+xml  
application/postscript ai eps ps  
# application/ppsp-tracker+json  
# application/problem+json  
# application/problem+xml  
# application/provenance+xml  
# application/prs.alvestrand.titrax-sheet  
application/prs.cww cww  
# application/prs.hpub+zip  
# application/prs.nprend  
# application/prs.plucker  
# application/prs.rdf+xml-crypt  
# application/prs.xsf+xml  
application/pskc+xml pskcxml  
# application/qsig  
# application/raptorfec  
# application/rdap+json  
application/rdf+xml rdf  
application/reginfo+xml rif  
application/relax-ng-compact-syntax rnc  
#  
application/remote-printing  
# application/reputon+json  
application/resource-lists+xml rl  
application/resource-lists-diff+xml rld  
# application/rfc+xml  
# application/riscos

# application/rlmi+xml  
application/rls-services+xml rs  
application/rpki-ghostbusters gbr  
application/rpki-manifest mft  
application/rpki-roa roa  
# application/rpki-updown  
application/rsd+xml rsd  
application/rss+xml rss  
application/rtf rtf  
# application/rtploopback  
# application/rtx  
# application/samlassertion+xml  
# application/samlmetadata+xml  
application/sbml+xml sbml  
# application/scaip+xml  
# application/scim+json  
application/scvp-cv-request scq  
application/scvp-cv-response scs  
application/scvp-vp-request spq  
application/scvp-vp-response spp  
application/sdp sdp  
# application/sep+xml  
# application/sep-exi  
# application/session-info  
# application/set-payment  
application/set-payment-initiation setpay  
#  
application/set-registration  
application/set-registration-initiation setreg  
# application/sgml  
# application/sgml-open-catalog  
application/shf+xml shf  
# application/sieve  
# application/simple-filter+xml  
# application/simple-message-summary  
# application/simplesymbolcontainer  
# application/slate  
# application/smil  
application/smil+xml smi smil  
# application/smpite336m  
# application/soap+fastinfoset  
# application/soap+xml  
application/sparql-query rq  
application/sparql-results+xml srx  
# application/spirits-event+xml  
# application/sql  
application/srgs gram  
application/srgs+xml grxml

application/sru+xml sru  
application/ssdl+xml ssdl  
application/ssml+xml ssml  
# application/tamp-apex-update  
# application/tamp-apex-update-confirm  
# application/tamp-community-update  
# application/tamp-community-update-confirm  
# application/tamp-error  
# application/tamp-sequence-adjust  
# application/tamp-sequence-adjust-confirm  
# application/tamp-status-query  
#  
application/tamp-status-response  
# application/tamp-update  
# application/tamp-update-confirm  
application/tei+xml tei teicorpus  
application/thraud+xml tfi  
# application/timestamp-query  
# application/timestamp-reply  
application/timestamped-data tsd  
# application/ttml+xml  
# application/tve-trigger  
# application/ulpfec  
# application/urc-grpsheet+xml  
# application/urc-ressheet+xml  
# application/urc-targetdesc+xml  
# application/urc-uisocketdesc+xml  
# application/vcard+json  
# application/vcard+xml  
# application/vemmi  
# application/vividence.scriptfile  
# application/vnd.3gpp-prose+xml  
# application/vnd.3gpp-prose-pc3ch+xml  
# application/vnd.3gpp.access-transfer-events+xml  
# application/vnd.3gpp.bsf+xml  
# application/vnd.3gpp.mid-call+xml  
application/vnd.3gpp.pic-bw-large plb  
application/vnd.3gpp.pic-bw-small psb  
application/vnd.3gpp.pic-bw-var pvb  
# application/vnd.3gpp.sms  
# application/vnd.3gpp.srvcc-ext+xml  
# application/vnd.3gpp.srvcc-info+xml  
# application/vnd.3gpp.state-and-event-info+xml  
#  
application/vnd.3gpp.ussd+xml  
# application/vnd.3gpp2.bcmcsinfo+xml  
# application/vnd.3gpp2.sms  
application/vnd.3gpp2.tcap tcap

application/vnd.3m.post-it-notes pwn  
application/vnd.accpac.simply.aso aso  
application/vnd.accpac.simply.imp imp  
application/vnd.acucobol acu  
application/vnd.acucorp atc acutc  
application/vnd.adobe.air-application-installer-package+zip air  
# application/vnd.adobe.flash.movie  
application/vnd.adobe.formscentral.fcdt fcdt  
application/vnd.adobe.fxp fxp fxpl  
# application/vnd.adobe.partial-upload  
application/vnd.adobe.xdp+xml xdp  
application/vnd.adobe.xfdf xfdf  
# application/vnd.aether.imp  
# application/vnd.ah-barcode  
application/vnd.ahead.space ahead  
application/vnd.airzip.filesecure.azf azf  
application/vnd.airzip.filesecure.azs azs  
application/vnd.amazon.ebook azw  
application/vnd.americandynamics.acc acc  
application/vnd.amiga.ami ami  
# application/vnd.amundsen.maze+xml  
application/vnd.android.package-archive apk  
#  
application/vnd.anki  
application/vnd.anser-web-certificate-issue-initiation cii  
application/vnd.anser-web-funds-transfer-initiation fti  
application/vnd.antix.game-component atx  
# application/vnd.apache.thrift.binary  
# application/vnd.apache.thrift.compact  
# application/vnd.apache.thrift.json  
# application/vnd.api+json  
application/vnd.apple.installer+xml mpkg  
application/vnd.apple.mpegurl m3u8  
# application/vnd.arastra.swi  
application/vnd.aristanetworks.swi swi  
# application/vnd.artsquare  
application/vnd.astraea-software.iota iota  
application/vnd.audiograph aep  
# application/vnd.autopackage  
# application/vnd.avistar+xml  
# application/vnd.balsamiq.bmml+xml  
# application/vnd.balsamiq.bmpr  
# application/vnd.bekitzur-stech+json  
# application/vnd.biopax.rdf+xml  
application/vnd.blueice.multipass mpm  
# application/vnd.bluetooth.ep.oob  
# application/vnd.bluetooth.le.oob  
application/vnd.bmi bmi

application/vnd.businessobjects rep  
# application/vnd.cab-jscript  
# application/vnd.canon-cpdl  
#  
application/vnd.canon-lips  
# application/vnd.cendio.thinlinc.clientconf  
# application/vnd.century-systems.tcp\_stream  
application/vnd.chemdraw+xml cdxml  
application/vnd.chipnuts.karaoke-mmd mmd  
application/vnd.cinderella cdy  
# application/vnd.cirpack.isdn-ext  
# application/vnd.citationstyles.style+xml  
application/vnd.claymore cla  
application/vnd.cloanto.rp9 rp9  
application/vnd.clonk.c4group c4g c4d c4f c4p c4u  
application/vnd.cluetrust.cartomobile-config c11amc  
application/vnd.cluetrust.cartomobile-config-pkg c11amz  
# application/vnd.coffeescript  
# application/vnd.collection+json  
# application/vnd.collection.doc+json  
# application/vnd.collection.next+json  
# application/vnd.commerce-battelle  
application/vnd.commonspace csp  
application/vnd.contact.cmsg cdbcmsg  
application/vnd.cosmocaller cmc  
application/vnd.crick.clicker clkx  
application/vnd.crick.clicker.keyboard clkk  
application/vnd.crick.clicker.palette clkp  
application/vnd.crick.clicker.template clkt  
application/vnd.crick.clicker.wordbank clkw  
application/vnd.criticaltools.wbs+xml wbs  
application/vnd.ctc-posml pml  
#  
application/vnd.ctct.ws+xml  
# application/vnd.cups-pdf  
# application/vnd.cups-postscript  
application/vnd.cups-ppd ppd  
# application/vnd.cups-raster  
# application/vnd.cups-raw  
# application/vnd.curl  
application/vnd.curl.car car  
application/vnd.curl.pcurl pcurl  
# application/vnd.cyan.dean.root+xml  
# application/vnd.cybank  
application/vnd.dart dart  
application/vnd.data-vision.rdz rdz  
# application/vnd.debian.binary-package  
application/vnd.dece.data uvf uvvf uvd uvvd

application/vnd.dece.ttml+xml uvt uvvt  
application/vnd.dece.unsigned uvx uvvx  
application/vnd.dece.zip uvz uvvz  
application/vnd.denovo.fcselayout-link fe\_launch  
# application/vnd.desmume.movie  
# application/vnd.dir-bi.plate-dl-nosuffix  
# application/vnd.dm.delegation+xml  
application/vnd.dna dna  
# application/vnd.document+json  
application/vnd.dolby.mlp mlp  
# application/vnd.dolby.mobile.1  
#  
application/vnd.dolby.mobile.2  
# application/vnd.doremir.scorecloud-binary-document  
application/vnd.dpgraph dpg  
application/vnd.dreamfactory dfac  
# application/vnd.drive+json  
application/vnd.ds-keypoint kpxx  
# application/vnd.dtg.local  
# application/vnd.dtg.local.flash  
# application/vnd.dtg.local.html  
application/vnd.dvb.ait ait  
# application/vnd.dvb.dvbj  
# application/vnd.dvb.esgcontainer  
# application/vnd.dvb.ipdcdftnotifaccess  
# application/vnd.dvb.ipdcesgaccess  
# application/vnd.dvb.ipdcesgaccess2  
# application/vnd.dvb.ipdcesgpdd  
# application/vnd.dvb.ipdcroaming  
# application/vnd.dvb.iptv.alfec-base  
# application/vnd.dvb.iptv.alfec-enhancement  
# application/vnd.dvb.notif-aggregate-root+xml  
# application/vnd.dvb.notif-container+xml  
# application/vnd.dvb.notif-generic+xml  
# application/vnd.dvb.notif-ia-msglist+xml  
# application/vnd.dvb.notif-ia-registration-request+xml  
# application/vnd.dvb.notif-ia-registration-response+xml  
# application/vnd.dvb.notif-init+xml  
#  
application/vnd.dvb.pfr  
application/vnd.dvb.service svc  
# application/vnd.dxr  
application/vnd.dynageo geo  
# application/vnd.dzr  
# application/vnd.easykaraoke.cdgdownload  
# application/vnd.ecdis-update  
application/vnd.ecowin.chart mag  
# application/vnd.ecowin.filerequest

```

application/vnd.ecowin.fileupdate
application/vnd.ecowin.series
application/vnd.ecowin.seriesrequest
application/vnd.ecowin.seriesupdate
application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
application/vnd.enphase.envoy
application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml es3 et3
application/vnd.etsi.aoc+xml
application/vnd.etsi.asic-e+zip
application/vnd.etsi.asic-s+zip
application/vnd.etsi.cug+xml
application/vnd.etsi.iptvcommand+xml
application/vnd.etsi.iptvdiscovery+xml
#
application/vnd.etsi.iptvprofile+xml
application/vnd.etsi.iptvsad-bc+xml
application/vnd.etsi.iptvsad-cod+xml
application/vnd.etsi.iptvsad-npvr+xml
application/vnd.etsi.iptvservice+xml
application/vnd.etsi.iptvsync+xml
application/vnd.etsi.iptvueprofile+xml
application/vnd.etsi.mcid+xml
application/vnd.etsi.mheg5
application/vnd.etsi.overload-control-policy-dataset+xml
application/vnd.etsi.pstn+xml
application/vnd.etsi.sci+xml
application/vnd.etsi.simservs+xml
application/vnd.etsi.timestamp-token
application/vnd.etsi.tsl+xml
application/vnd.etsi.tsl.der
application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
application/vnd.f-secure.mobile
application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
application/vnd.ffmpeg
application/vnd.filmit.zfc

```



# application/vnd.fints  
# application/vnd.firemonkeys.cloudcell  
application/vnd.flographit gph  
application/vnd.fluxtime.clip ftc  
#  
application/vnd.font-fontforge-sfd  
application/vnd.frameMaker fm frame maker book  
application/vnd.frogans.fnc fnc  
application/vnd.frogans.ltf ltf  
application/vnd.fsc.weblaunch fsc  
application/vnd.fujitsu.oasys oas  
application/vnd.fujitsu.oasys2 oa2  
application/vnd.fujitsu.oasys3 oa3  
application/vnd.fujitsu.oasysgp fg5  
application/vnd.fujitsu.oasysprs bh2  
# application/vnd.fujixerox.art-ex  
# application/vnd.fujixerox.art4  
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# application/vnd.gridmp  
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application/vnd.groove-help ghf  
application/vnd.groove-identity-message gim

application/vnd.groove-injector grv  
application/vnd.groove-tool-message gtm  
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# application/vnd.hdt  
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application/vnd.hp-hpid hpid  
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application/vnd.sus-calendar sus susp  
application/vnd.svd svd  
# application/vnd.swiftview-ics

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# application/vnd.syncml.dmddf+xml  
# application/vnd.syncml.dmtnds+wbxml  
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 # application/watcherinfo+xml  
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 # application/whoispp-response  
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 application/wspolicy+xml wspolicy  
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 application/x-bzip2 bz2 boz  
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cdf  
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# video/mp2t  
video/mp4 mp4 mp4v mpg4  
# video/mp4v-es  
video/mpeg mpeg mpg mpe m1v m2v  
# video/mpeg4-generic  
# video/mpv  
# video/nv  
video/ogg ogv  
# video/parityfec  
# video/pointer  
video/quicktime qt mov  
# video/raptorfec  
# video/raw  
# video/rtp-enc-aescm128  
# video/rtploopback  
# video/rtx  
# video/smp292m  
# video/ulpfec  
# video/vc1  
# video/vnd.cctv  
video/vnd.dece.hd uvh  
uvvh  
video/vnd.dece.mobile uvm uvvm  
# video/vnd.dece.mp4  
video/vnd.dece.pd uvp uvvp  
video/vnd.dece.sd uvs uvvs  
video/vnd.dece.video uvv uvvv  
# video/vnd.directv.mpeg  
# video/vnd.directv.mpeg-tts  
# video/vnd.dlna.mpeg-tts  
video/vnd.dvb.file dvb  
video/vnd.fvt fvt  
# video/vnd.hns.video  
# video/vnd.iptvforum.1dparityfec-1010  
# video/vnd.iptvforum.1dparityfec-2005  
# video/vnd.iptvforum.2dparityfec-1010  
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# video/vnd.iptvforum.ttsmpeg2  
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# video/vnd.motorola.videop  
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# video/vnd.sealed.mpeg1  
# video/vnd.sealed.mpeg4  
# video/vnd.sealed.swf  
# video/vnd.sealedmedia.softseal.mov  
video/vnd.uvu.mp4 uvu uvvu  
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video/x-f4v f4v  
video/x-fli fli  
video/x-flv flv  
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mk3d mks  
video/x-mng mng  
video/x-ms-asf asf asx  
video/x-ms-vob vob  
video/x-ms-wm wm  
video/x-ms-wmv wmv  
video/x-ms-wmx wmx  
video/x-ms-wvx wvx  
video/x-msvideo avi  
video/x-sgi-movie movie  
video/x-smv smv  
x-conference/x-cooltalk ice

Found in path(s):

\* /async-http-client-2-12-3-jar/org/asynchttpclient/request/body/multipart/ahc-mime.types

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

Manifest-Version: 1.0

Bnd-LastModified: 1616858952394

Build-Jdk: 1.8.0\_265

Built-By: tom

Bundle-Description: The Async Http Client (AHC) classes.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Asynchronous Http Client

Bundle-SymbolicName: org.asynchttpclient.async-http-client

Bundle-Vendor: The AsyncHttpClient Project

Bundle-Version: 2.12.3

Created-By: Apache Maven Bundle Plugin

Export-Package: org.asynchttpclient;uses:="io.netty.buffer,io.netty.chan

nel,io.netty.handler.codec.http,io.netty.handler.codec.http.cookie,io.n

etty.handler.ssl,io.netty.resolver,io.netty.util,javax.net.ssl,org.asyn

httpClient.channel,org.asynchttpclient.cookie,org.asynchttpclient.filter,org.asynchttpclient.handler,org.asynchttpclient.netty.channel,org.asynchttpclient.netty.request,org.asynchttpclient.proxy,org.asynchttpclient.request.body.generator,org.asynchttpclient.request.body.multipart,org.asynchttpclient.uri,org.asynchttpclient.util,org.reactivestreams";version="2.12.3",org.asynchttpclient.handler;uses="io.netty.handler.codec.http,org.asynchttpclient,org.reactivestreams";version="2.12.3",org.asynchttpclient.handler.resumable;uses="io.netty.handler.codec.http,org.asynchttpclient,org.asynchttpclient.filter";version="2.12.3",org.asynchttpclient.oauth;uses="org.asynchttpclient,org.asynchttpclient.uri";version="2.12.3",org.asynchttpclient.proxy;uses="io.netty.handler.codec.http,org.asynchttpclient,org.asynchttpclient.uri";version="2.12.3",org.asynchttpclient.util;uses="io.netty.util,org.asynchttpclient,org.asynchttpclient.proxy,org.asynchttpclient.uri";version="2.12.3",org.asynchttpclient.config;version="2.12.3",org.asynchttpclient.ntlm;version="2.12.3",org.asynchttpclient.netty.handler;uses="com.typesafe.netty,io.netty.channel,org.asynchttpclient,org.asynchttpclient.netty,org.asynchttpclient.netty.channel,org.asynchttpclient.netty.request,org.reactivestreams,org.slf4j";version="2.12.3",org.asynchttpclient.netty.handler.intercept;uses="io.netty.channel,io.netty.handler.codec.http,org.asynchttpclient,org.asynchttpclient.netty,org.asynchttpclient.netty.channel,org.asynchttpclient.netty.request,org.asynchttpclient.proxy";version="2.12.3",org.asynchttpclient.netty;uses="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.handler.codec.http.cookie,io.netty.util.concurrent,org.asynchttpclient,org.asynchttpclient.channel,org.asynchttpclient.netty.channel,org.asynchttpclient.netty.request,org.asynchttpclient.netty.timeout,org.asynchttpclient.proxy,org.asynchttpclient.uri";version="2.12.3",org.asynchttpclient.netty.ssl;uses="io.netty.handler.ssl,javax.net.ssl,org.asynchttpclient";version="2.12.3",org.asynchttpclient.netty.timeout;uses="io.netty.util,org.asynchttpclient,org.asynchttpclient.netty,org.asynchttpclient.netty.request";version="2.12.3",org.asynchttpclient.netty.channel;uses="io.netty.bootstrap,io.netty.channel,io.netty.handler.ssl,io.netty.resolver,io.netty.util,io.netty.util.concurrent,org.asynchttpclient,org.asynchttpclient.channel,org.asynchttpclient.netty,org.asynchttpclient.netty.request,org.asynchttpclient.proxy,org.asynchttpclient.uri";version="2.12.3",org.asynchttpclient.netty.request;uses="io.netty.channel,io.netty.handler.codec.http,io.netty.util,io.netty.util.concurrent,org.asynchttpclient,org.asynchttpclient.filter,org.asynchttpclient.netty,org.asynchttpclient.netty.channel,org.asynchttpclient.netty.request.body,org.asynchttpclient.proxy";version="2.12.3",org.asynchttpclient.netty.request.body;uses="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.handler.stream,org.asynchttpclient,org.asynchttpclient.netty,org.asynchttpclient.request.body,org.asynchttpclient.request.body.multipart,org.reactivestreams";version="2.12.3",org.asynchttpclient.netty.future;version="2.12.3",org.asynchttpclient.netty.ws;uses="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.handler.codec.http.websocketx,io.netty.util.concurrent,org.asynchttpclient.ws";version="2.12.3",org.asynchttpclient.spneg

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ty.util;version="[2.12,3)",org.asynchttpclient.netty.ws,org.asynchttpclient.ntlm,org.asynchttpclient.proxy,org.asynchttpclient.request.body,org.asynchttpclient.request.body.generator,org.asynchttpclient.request.body.multipart,org.asynchttpclient.request.body.multipart.part,org.asynchttpclient.resolver,org.asynchttpclient.spnego,org.asynchttpclient.uri,org.asynchttpclient.util,org.asynchttpclient.ws,org.ietf.jgss,org.reactivestreams;version="[1.0,2)",org.slf4j;version="[1.7,2)",org.w3c.dom,org.xml.sax  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.0.0.201509101326

Found in path(s):

\* /async-http-client-2-12-3-jar/META-INF/MANIFEST.MF

# 1.172 swagger 1.6.11

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```

Found in path(s):

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* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sr/InputElementStack.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/DTDSubsetImpl.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sw/XmlWriterWrapper.java
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* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sr/AttributeCollector.java
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```

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* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sr/BasicStreamReader.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sw/BufferingXmlWriter.java
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* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/DTDDTypingNonValidator.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sr/Attribute.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/io/WstxInputSource.java
*
/woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sw/ISOLatin1XmlWriter.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sw/AsciiXmlWriter.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sr/TypedStreamReader.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/DTDDValidator.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sw/EncodingXmlWriter.java
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* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sw/BaseStreamWriter.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/io/ISOLatinReader.java
* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/FullDTDDReader.java
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\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/io/EBCDICCodec.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/evt/BaseStartElement.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/io/UTF8Reader.java  
\*  
/woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/exc/WstxException.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/exc/WstxLazyException.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/evt/DefaultEventAllocator.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/io/WstxInputLocation.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/ent/EntityDecl.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/util/BaseNsContext.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/PrefixedNameSet.java  
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\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sax/SAXFeature.java  
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\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/StructValidator.java  
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\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/sr/ValidatingStreamReader.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/DefaultAttrValue.java

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/woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/msv/W3CSchema.java

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\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/msv/GenericMsvValidator.java

\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/util/SymbolTable.java

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\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/msv/RelaxNGSchema.java

\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/msv/W3CSchemaFactory.java

\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/msv/AttributeProxy.java

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/woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/stax/WstxInputFactory.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/util/ElementIdMap.java  
\* /woodstox-core-asl-4-1-2-sources-2-jar/com/ctc/wstx/dtd/DTDAAttribute.java

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# 1.179 json-smart 2.4.8

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Found in path(s):

\* /json-smart-2-4-8-jar/META-INF/maven/net.minidev/json-smart/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1644737862078

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

Bundle-DocURL: <https://urielch.github.io/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: json-smart

Bundle-SymbolicName: net.minidev.json-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version:

2.4.8

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer";version="2.4.8",net.minidev.json.annotate;version="2.4.8",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.8",net.minidev.json.reader;uses:="net.minidev.json";version="2.4.8",net.minidev.json.writer;uses:="net.minidev.json,net.minidev.json.parser";version="2.4.8"

Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json,net.minidev.json.annotate,net.minidev.json.parser,net.minidev.json.reade

r,net.minidev.json.writer

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /json-smart-2-4-8-jar/META-INF/MANIFEST.MF

# 1.180 taglibs-standard 1.2.5

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Found in path(s):

```
* /oauth-provider-20100527-sources-jar/net/oauth/OAuthValidator.java
* /oauth-provider-20100527-sources-jar/net/oauth/SimpleOAuthValidator.java
```

## 1.182 jax-ws-api 2.2.8

## 1.183 ehcache 2.2.0

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-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

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RX52XCiKwhPJ5uZha54/djQ=  
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## 3. Distribution Obligations

### 3.1. Application of License.

ANY COVERED CODE THAT YOU DISTRIBUTE OR OTHERWISE MAKE AVAILABLE IS GOVERNED BY THE TERMS OF THIS LICENSE, INCLUDING WITHOUT LIMITATION SECTION 2.2. THE SOURCE CODE VERSION OF COVERED CODE MAY BE DISTRIBUTED ONLY UNDER

THE TERMS OF THIS LICENSE OR A FUTURE VERSION OF THIS LICENSE RELEASED UNDER SECTION 6.1, AND YOU MUST INCLUDE A COPY OF THIS LICENSE WITH EVERY COPY OF THE SOURCE CODE YOU DISTRIBUTE OR OTHERWISE MAKE AVAILABLE. YOU MAY NOT OFFER OR IMPOSE ANY TERMS ON ANY SOURCE CODE VERSION THAT ALTERS OR RESTRICTS THE APPLICABLE VERSION OF THIS LICENSE OR THE RECIPIENTS' RIGHTS HEREUNDER. HOWEVER, YOU MAY INCLUDE AN ADDITIONAL DOCUMENT OFFERING THE ADDITIONAL RIGHTS DESCRIBED IN SECTION 3.5.

### 3.2. Availability of Source Code.

ANY MODIFICATION WHICH YOU CREATE OR TO WHICH YOU CONTRIBUTE MUST BE MADE AVAILABLE IN SOURCE CODE FORM UNDER THE TERMS OF THIS LICENSE EITHER ON THE SAME MEDIA AS AN EXECUTABLE VERSION OR VIA AN ACCEPTED ELECTRONIC DISTRIBUTION MECHANISM TO ANYONE TO WHOM YOU MADE AN EXECUTABLE VERSION AVAILABLE; AND IF MADE AVAILABLE VIA ELECTRONIC DISTRIBUTION MECHANISM, MUST REMAIN AVAILABLE FOR AT LEAST TWELVE (12) MONTHS AFTER THE DATE IT INITIALLY BECAME AVAILABLE, OR AT LEAST SIX (6)

MONTHS AFTER A SUBSEQUENT VERSION OF THAT PARTICULAR MODIFICATION HAS BEEN MADE AVAILABLE TO SUCH RECIPIENTS. YOU ARE RESPONSIBLE FOR ENSURING THAT THE SOURCE CODE VERSION REMAINS AVAILABLE EVEN IF THE ELECTRONIC DISTRIBUTION MECHANISM IS MAINTAINED BY A THIRD PARTY.

### 3.3. Description of Modifications.

YOU MUST CAUSE ALL COVERED CODE TO WHICH YOU CONTRIBUTE TO CONTAIN A FILE DOCUMENTING THE CHANGES YOU MADE TO CREATE THAT COVERED CODE AND THE DATE OF ANY CHANGE. YOU MUST INCLUDE A PROMINENT STATEMENT THAT THE MODIFICATION IS DERIVED, DIRECTLY OR INDIRECTLY, FROM ORIGINAL CODE PROVIDED BY THE INITIAL DEVELOPER AND INCLUDING THE NAME OF THE INITIAL DEVELOPER IN (A) THE SOURCE CODE, AND (B) IN ANY NOTICE IN AN EXECUTABLE VERSION OR RELATED DOCUMENTATION IN WHICH YOU DESCRIBE THE ORIGIN OR OWNERSHIP OF THE COVERED CODE.

### 3.4. Intellectual Property Matters

#### (a) Third Party Claims

IF CONTRIBUTOR HAS KNOWLEDGE THAT A LICENSE UNDER A THIRD PARTY'S INTELLECTUAL PROPERTY RIGHTS IS REQUIRED TO

#### EXERCISE THE RIGHTS GRANTED

BY SUCH CONTRIBUTOR UNDER SECTIONS 2.1 OR 2.2, CONTRIBUTOR MUST INCLUDE A TEXT FILE WITH THE SOURCE CODE DISTRIBUTION TITLED "LEGAL" WHICH DESCRIBES THE CLAIM AND THE PARTY MAKING THE CLAIM IN SUFFICIENT DETAIL THAT A RECIPIENT WILL KNOW WHOM TO CONTACT. IF CONTRIBUTOR OBTAINS SUCH KNOWLEDGE AFTER THE MODIFICATION IS MADE AVAILABLE AS DESCRIBED IN SECTION 3.2, CONTRIBUTOR SHALL PROMPTLY MODIFY THE LEGAL FILE IN ALL COPIES CONTRIBUTOR MAKES AVAILABLE THEREAFTER AND SHALL TAKE OTHER STEPS (SUCH AS NOTIFYING APPROPRIATE MAILING LISTS OR NEWSGROUPS) REASONABLY CALCULATED TO INFORM THOSE WHO RECEIVED THE COVERED CODE THAT NEW KNOWLEDGE HAS BEEN OBTAINED.

#### (b) Contributor APIs

IF CONTRIBUTOR'S MODIFICATIONS INCLUDE AN APPLICATION PROGRAMMING INTERFACE AND CONTRIBUTOR HAS KNOWLEDGE OF PATENT LICENSES WHICH ARE REASONABLY NECESSARY TO IMPLEMENT THAT API, CONTRIBUTOR MUST ALSO INCLUDE THIS INFORMATION IN THE LEGAL FILE.

#### (c) Representations.

#### CONTRIBUTOR REPRESENTS

THAT, EXCEPT AS DISCLOSED PURSUANT TO SECTION 3.4 (A) ABOVE, CONTRIBUTOR BELIEVES THAT CONTRIBUTOR'S MODIFICATIONS ARE CONTRIBUTOR'S ORIGINAL CREATION(S) AND/OR CONTRIBUTOR HAS SUFFICIENT RIGHTS TO GRANT THE RIGHTS CONVEYED BY THIS LICENSE.

#### 3.5. Required Notices.

YOU MUST DUPLICATE THE NOTICE IN EXHIBIT A IN EACH FILE OF THE SOURCE CODE. IF IT IS NOT POSSIBLE TO PUT SUCH NOTICE IN A PARTICULAR SOURCE CODE FILE DUE TO ITS STRUCTURE, THEN YOU MUST INCLUDE SUCH NOTICE IN A LOCATION (SUCH AS A RELEVANT DIRECTORY) WHERE A USER WOULD BE LIKELY TO LOOK FOR SUCH A NOTICE. IF YOU CREATED ONE OR MORE MODIFICATION(S) YOU MAY ADD YOUR NAME AS A CONTRIBUTOR TO THE NOTICE DESCRIBED IN EXHIBIT A. YOU MUST ALSO DUPLICATE THIS LICENSE IN ANY DOCUMENTATION FOR THE SOURCE CODE WHERE YOU DESCRIBE RECIPIENTS' RIGHTS OR OWNERSHIP RIGHTS RELATING TO COVERED CODE. YOU MAY CHOOSE TO OFFER, AND TO CHARGE A FEE FOR, WARRANTY, SUPPORT, INDEMNITY OR LIABILITY OBLIGATIONS TO ONE OR MORE RECIPIENTS OF COVERED CODE.

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### 3.6. Distribution of Executable Versions.

YOU MAY DISTRIBUTE OR OTHERWISE MAKE AVAILABLE COVERED CODE IN EXECUTABLE FORM ONLY IF THE REQUIREMENTS OF SECTIONS 3.1, 3.2, 3.3, 3.4 AND 3.5 HAVE BEEN MET FOR THAT COVERED CODE, AND IF YOU INCLUDE A NOTICE STATING THAT THE SOURCE CODE VERSION OF THE COVERED CODE IS AVAILABLE UNDER THE TERMS OF THIS LICENSE, INCLUDING A DESCRIPTION OF HOW AND WHERE YOU HAVE FULFILLED THE OBLIGATIONS OF SECTION 3.2. THE NOTICE MUST BE CONSPICUOUSLY INCLUDED IN ANY NOTICE IN AN EXECUTABLE VERSION, RELATED

DOCUMENTATION OR COLLATERAL IN WHICH YOU DESCRIBE RECIPIENTS' RIGHTS RELATING TO THE COVERED CODE. YOU MAY DISTRIBUTE OR OTHERWISE MAKE AVAILABLE THE EXECUTABLE VERSION OF COVERED CODE OR OWNERSHIP RIGHTS UNDER A LICENSE OF YOUR CHOICE, WHICH MAY CONTAIN TERMS DIFFERENT FROM THIS LICENSE, PROVIDED THAT YOU ARE IN COMPLIANCE WITH THE TERMS OF THIS LICENSE AND THAT THE LICENSE FOR THE EXECUTABLE VERSION DOES NOT ATTEMPT TO LIMIT OR ALTER THE RECIPIENT'S RIGHTS IN THE SOURCE CODE VERSION FROM THE RIGHTS SET FORTH IN THIS LICENSE. IF YOU DISTRIBUTE OR OTHERWISE MAKE AVAILABLE THE EXECUTABLE VERSION UNDER A DIFFERENT LICENSE YOU MUST MAKE IT ABSOLUTELY CLEAR THAT ANY TERMS WHICH DIFFER FROM THIS LICENSE ARE OFFERED BY YOU ALONE, NOT BY THE INITIAL DEVELOPER OR ANY CONTRIBUTOR. YOU HEREBY AGREE TO INDEMNIFY THE INITIAL DEVELOPER AND EVERY CONTRIBUTOR FOR ANY LIABILITY INCURRED BY THE INITIAL DEVELOPER OR SUCH CONTRIBUTOR AS A RESULT OF ANY SUCH TERMS YOU OFFER.

### 3.7. Larger Works.

YOU MAY

CREATE A LARGER WORK BY COMBINING COVERED CODE WITH OTHER CODE NOT GOVERNED BY THE TERMS OF THIS LICENSE AND DISTRIBUTE OR OTHERWISE MAKE AVAILABLE THE LARGER WORK AS A SINGLE PRODUCT. IN SUCH A CASE, YOU MUST MAKE SURE THE REQUIREMENTS OF THIS LICENSE ARE FULFILLED FOR THE COVERED CODE.

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## 5. Application of this License

### THIS

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## 6. Versions of the License

### 6.1. New Versions

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#### 12. Responsibility for claims

AS BETWEEN INITIAL DEVELOPER AND THE CONTRIBUTORS, EACH PARTY IS RESPONSIBLE FOR CLAIMS AND DAMAGES ARISING, DIRECTLY OR INDIRECTLY, OUT OF ITS UTILIZATION OF RIGHTS UNDER THIS LICENSE AND YOU AGREE TO WORK WITH INITIAL DEVELOPER AND CONTRIBUTORS TO DISTRIBUTE SUCH RESPONSIBILITY ON AN EQUITABLE BASIS. NOTHING HEREIN IS INTENDED OR SHALL BE DEEMED TO CONSTITUTE ANY ADMISSION OF LIABILITY.

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"License type":

type: String

required: true

pattern: Trial|Commercial

"License number":

type: String

required: true

"Licensee":

type: String

required: true

"Max clients":

type: Integer

required: true

range:

min: 1

"Product":

type: String

required: true

pattern: Enterprise Suite|Ehcache|Quartz|Sessions|Custom

"Edition":

type: String

required: true

pattern: FX|EX

"Expiration date":

type: Date

required: false

Opensource capabilities:

- roots

- sessions

- ehcache

- quartz

Enterprise capabilities:

- roots

- sessions

- Terracotta operator console

- server striping



- ehcache
- quartz
- authentication
- DCV2

Licensed products:

Enterprise Suite:

EX:

- roots
- Terracotta operator console
- authentication
- ehcache
- quartz
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FX:

- roots
- Terracotta operator

console

- authentication
- ehcache
- quartz
- sessions
- server striping
- DCV2

Ehcache:

EX:

- Terracotta operator console
- authentication
- ehcache

FX:

- Terracotta operator console
- authentication
- ehcache
- server striping
- DCV2

Quartz:

EX:

- Terracotta operator console
- authentication
- quartz

FX:

- Terracotta operator console
- authentication
- quartz
- server striping
- DCV2

Sessions:

EX:

- Terracotta operator console
- authentication
- sessions

FX:

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Hash: SHA1

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Full name: Joakim Erdfelt

E-Mail: `joakime@apache.org`

Mailing Address: 2515 W Kachina Trail, Phoenix, AZ 85041, USA

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DjjB+RZS+LRI03Pa0jqd5ZA=

=nTZ5

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2hgAnRoq7k8cHqO4o1oRwybUho6x/TAW  
=rRcC

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5m1IYSdEU+ue5uwdK2wFixw=

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33fLBVCnyMmWMfvBorrHHik=  
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xml-commons/java/external/README.dom.txt \$Id: README.dom.txt,v 1.1 2002/01/31 23:13:42 curcuru Exp \$

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iLR55mJGzunEofYcO9ZC5M0=  
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zBschemaorg\_apache\_xmlbeans.system.s5F9685CCFAB17A1A45B3D30E6740C5D4

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+gEAnjJUzogrTBtlhAJ2f0EdPzPbo6Kw

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webmaster

(last updated \$Date: 2002/01/31 23:13:42 \$)

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Mailing Address: 4676 Admiralty Way, Suite 520  
Marina Del Rey, CA 90292

Point of Contact:  
Full name: Gordon King  
E-Mail: [gordon.king@simulalabs.com](mailto:gordon.king@simulalabs.com)  
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6etDJ6AUj0jTuSl59hUsWMQ=

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Full name: James Strachan  
E-Mail: `jstrachan@apache.org`  
Mailing Address: 1A Leigh Road, London, UK, N5 1ST

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Full name: Julian Anthony Fox Gosnell

E-Mail: `jules@coredevelopers.net`

Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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=kutZ  
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- \* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/JDK14LoggerFactory.java
- \* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/JDK14LoggerAdapter.java
- \* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
- \* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
- \* /slf4j-jdk14-1-7-36-sources-jar/org/slf4j/impl/StaticMDCBinder.java

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Found in path(s):

- \* /boon-0-33-sources-2-jar/org/boon/di/ProviderInfo.java
- \* /boon-0-33-sources-2-jar/org/boon/Exceptions.java

- \* /boon-0-33-sources-2-jar/org/boon/logging/InMemoryThreadLocalLogger.java
- \* /boon-0-33-sources-2-jar/org/boon/json/implementation/JsonFastParser.java
- \* /boon-0-33-sources-2-jar/org/boon/di/Module.java
- \* /boon-0-33-sources-2-jar/org/boon/primitive/Chr.java
- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/AnnotationData.java
- \*
- /boon-0-33-sources-2-jar/org/boon/primitive/Shrt.java
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- \* /boon-0-33-sources-2-jar/org/boon/sort/SortingInternal.java
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- \* /boon-0-33-sources-2-jar/org/boon/json/implementation/JsonBaseByteArrayParser.java
- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/fields/PropertyFieldAccessor.java
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- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/BeanUtils.java
- \* /boon-0-33-sources-2-jar/org/boon/primitive/IOReader.java
- \* /boon-0-33-sources-2-jar/org/boon/json/serializers/impl/UnknownSerializerImpl.java
- \* /boon-0-33-sources-2-jar/org/boon/primitive/Lng.java
- \* /boon-0-33-sources-2-jar/org/boon/json/JsonParserFactory.java
- \* /boon-0-33-sources-2-jar/org/boon/di/modules/NamedUtils.java
- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/fields/MapField.java
- \* /boon-0-33-sources-2-jar/org/boon/criteria/internal/Operator.java
- \* /boon-0-33-sources-2-jar/org/boon/primitive/InMemoryInputStream.java
- \* /boon-0-33-sources-2-jar/org/boon/datarepo/Collections.java
- \* /boon-0-33-sources-2-jar/org/boon/datarepo/impl/maps/MapCreatorImpl.java
- \* /boon-0-33-sources-2-jar/org/boon/json/serializers/impl/FieldSerializerUseAnnotationsImpl.java
- \*
- /boon-0-33-sources-2-jar/org/boon/json/JsonParser.java
- \* /boon-0-33-sources-2-jar/org/boon/collections/SortableConcurrentList.java
- \* /boon-0-33-sources-2-jar/org/boon/criteria/internal/Visitor.java
- \* /boon-0-33-sources-2-jar/org/boon/validation/annotations/Length.java
- \* /boon-0-33-sources-2-jar/org/boon/json/serializers/impl/CollectionSerializerImpl.java
- \* /boon-0-33-sources-2-jar/org/boon/criteria/DoubleCollector.java
- \* /boon-0-33-sources-2-jar/org/boon/config/ContextConfigReader.java
- \* /boon-0-33-sources-2-jar/org/boon/validation/annotations/LongRange.java
- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/impl/MethodAccessImpl.java
- \* /boon-0-33-sources-2-jar/org/boon/core/Value.java
- \* /boon-0-33-sources-2-jar/org/boon/core/Dates.java
- \* /boon-0-33-sources-2-jar/org/boon/validation/FieldValidator.java
- \* /boon-0-33-sources-2-jar/org/boon/json/serializers/ObjectSerializer.java
- \* /boon-0-33-sources-2-jar/org/boon/datarepo/SearchableCollection.java
- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/Invoker.java
- \*
- /boon-0-33-sources-2-jar/org/boon/core/NameAware.java
- \* /boon-0-33-sources-2-jar/org/boon/cache/SimpleConcurrentCache.java
- \* /boon-0-33-sources-2-jar/org/boon/sort/SortType.java
- \* /boon-0-33-sources-2-jar/org/boon/datarepo/impl/decorators/FilterDecoratorBase.java
- \* /boon-0-33-sources-2-jar/org/boon/validation/readers/PropertiesFileValidatorMetadataReader.java
- \* /boon-0-33-sources-2-jar/org/boon/datarepo/DataRepoException.java
- \* /boon-0-33-sources-2-jar/org/boon/primitive/Input.java
- \* /boon-0-33-sources-2-jar/org/boon/datarepo/Repo.java
- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/fields/UnsafeField.java
- \* /boon-0-33-sources-2-jar/org/boon/json/implementation/JsonAsciiParser.java
- \* /boon-0-33-sources-2-jar/org/boon/di/modules/BaseModule.java
- \* /boon-0-33-sources-2-jar/org/boon/validation/validators/StopOnRuleValidator.java
- \* /boon-0-33-sources-2-jar/org/boon/json/implementation/JsonUTF8Parser.java
- \* /boon-0-33-sources-2-jar/org/boon/core/reflection/MethodAccess.java
- \*
- /boon-0-33-sources-2-jar/org/boon/Maps.java
- \* /boon-0-33-sources-2-jar/org/boon/primitive/ReaderCharacterSource.java
- \* /boon-0-33-sources-2-jar/org/boon/datarepo/impl/decorators/FilterWithCache.java
- \* /boon-0-33-sources-2-jar/org/boon/core/value/ValueList.java

\* /boon-0-33-sources-2-jar/org/boon/json/serializers/impl/InstanceSerializerImpl.java  
\* /boon-0-33-sources-2-jar/org/boon/datarepo/impl/indexes/LookupIndexDefault.java  
\* /boon-0-33-sources-2-jar/org/boon/core/reflection/Annotations.java  
\* /boon-0-33-sources-2-jar/org/boon/di/impl/ContextImpl.java  
\* /boon-0-33-sources-2-jar/org/boon/json/JsonParserEvents.java  
\* /boon-0-33-sources-2-jar/org/boon/validation/ValidatorMessages.java  
\* /boon-0-33-sources-2-jar/org/boon/criteria/internal/Grouping.java  
\* /boon-0-33-sources-2-jar/org/boon/HTTP.java  
\* /boon-0-33-sources-2-jar/org/boon/logging/LogRecord.java  
\* /boon-0-33-sources-2-jar/org/boon/config/MetaConfigEvents.java  
\* /boon-0-33-sources-2-jar/org/boon/core/reflection/impl/ConstructorAccessImpl.java  
\*  
/boon-0-33-sources-2-jar/org/boon/validation/validators/LongRangeValidator.java  
\* /boon-0-33-sources-2-jar/org/boon/primitive/Dbl.java

# 1.187 system.data.oledb 4.0

## 1.187.1 Available under license :

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# 1.188 bcel 2.7.2

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 */

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

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

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
```

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

parser code {:

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

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

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

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

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

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

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

public int getLineNumber() {
 return _lineNumber;
}
```

```

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

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

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

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

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

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

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

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

 return new StepPattern(axis, nodeType, predicates);
}
}

```

```

 else {
 QName name = (QName)test;
 boolean setPriority = false;

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

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

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

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

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

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

 // Set priority for case prefix:* and prefix:@* (no predicates)
 if (setPriority) {

```



```

result.setPriority(-0.25);
 }

 return result;
}
}

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

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

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

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

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

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *

```

```

* @param lineNumber Line where the current expression is defined.
* @param external Set to <tt>true</tt> if this expression is
* compiled in a separate module.
*

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

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

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

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

 public void report_fatal_error(String message, Object info) {
 // empty
 }

```

```

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

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

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

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non

```

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

non terminal Object NodeTest, NameTest;

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

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

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

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

start with TopLevel;

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

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

/\* ----- Patterns ----- \*/

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

```

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

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

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

| IdKeyPattern:ikp

{: RESULT = ikp; :}

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

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

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

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

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

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

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

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

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

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

StepPattern ::= NodeTestPattern:nt

```

```

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

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

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

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

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

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

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

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

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

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

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

| COMMENT

```

```

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

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

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

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

ChildOrAttributeAxisSpecifier ::= ATSIGN

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

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

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

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

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

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

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

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

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

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

AndExpr ::= EqualityExpr:e

```

```

{: RESULT = e; :}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```



```

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

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

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

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

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

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

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

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

 | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
 {:
 //
 // Expand '/' into '/descendant-or-self::node()/' or
 // into '/descendant-or-self::*/
 //
 int nodeType = DOM.NO_TYPE;
 if (rlp instanceof Step &&
 parser.isElementAxis(((Step) rlp).getAxis()))
 {
 nodeType = DTM.ELEMENT_NODE;
 }

 final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
 FilterParentPath fpp = new FilterParentPath(fexp, step);
 fpp = new FilterParentPath(fpp, rlp);
 if (fexp instanceof KeyCall == false) {
 fpp.setDescendantAxis();
 }

 RESULT = fpp;
 :};

LocationPath ::= RelativeLocationPath:rlp

```

```

{: RESULT = rlp; :}

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

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

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

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

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

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

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

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

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
 // Compress './child:E' into 'descendant::E' - if possible
 if (predicates == null) {
 right.setAxis(Axis.DESCENDANT);
 if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

```

```

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

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

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

```

```

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{

```

```

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

```

```

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

```

```

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

```

```

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

```

```

| AxisSpecifier:axis NodeTest:ntest

```

```

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

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

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

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

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

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

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

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

| DESCENDANT
{: RESULT = new Integer(Axis.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, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
 RESULT = new UnparsedEntityUriCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
 RESULT = new KeyCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
 RESULT = new KeyCall(fname, argl);
 parser.setHasIdCall(true);
 }
 else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
 {
 RESULT = new CeilingCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
 RESULT = new RoundCall(fname, argl);
 }
 else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
 RESULT = new FloorCall(fname, argl);
 }
}

```

```

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

```

NonemptyArgumentList

```

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

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

```

FunctionName ::= QName:fname

```
{:
 RESULT = fname;
:};
```

VariableName ::= QName:vname

```
{:
 RESULT = vname;
:};
```

Argument ::= Expr:ex

```
{: RESULT = ex; :};
```

NodeTest ::= NameTest:nt

```
{: RESULT = nt; :}
```

```
| NODE
```

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

```
| TEXT
```

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

```
| COMMENT
```

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

```
| PIPARAM LPAREN Literal:l RPAREN
```

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

```
| PI
```

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

NameTest ::= STAR

```
{: RESULT = null; :}
```

```
| QName:qn
```

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

QName ::= QNAME:qname

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| SELF

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

| ID

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

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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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):

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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 \* limitations under the License.  
 \*/  
 /\*\*  
 \* This is a special exception that is used to stop parsing when  
 \* search for an element. For instance, when searching  
 \* for xml:stylesheet  
 \* PIs, it is used to stop the parse once the document element is found.  
 \* @see StylesheetPIHandler  
 \* @xsl.usage internal  
 \*/

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java

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 \*/  
 /\*  
 \* \$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\u1113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

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

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-

\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

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

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

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

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

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

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

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

```

"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[\t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[\t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[\t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction"
{ return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[\t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
}
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\[^\]*\ { return newSymbol(sym.Literal,
 yytext().substring(1, yytext().length() - 1)); }
\[^\]*\ { return newSymbol(sym.Literal,
 yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+ { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"." { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"" { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@"*"" { return newSymbol(sym.QNAME, yytext()); }

```

```
[\t\r\n\f] { /* ignore white space. */ }
. { throw new Exception(yytext()); }
```

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex

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

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

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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

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

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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

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\* limitations under the License.

\*/

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java

\*

/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java

\* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java

\* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java

\* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_zh.java

\* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java

\*

/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_ja.java

\* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java

\* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java

- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_zh\_CN.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_ko.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/XSLTSource.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/StringUtils.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_hu.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/StringUtilsTableVector.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/PrefixResolver.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_en.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/StringArrayWrapper.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/DOM2Helper.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_sk.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLT.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_pt\_BR.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java

- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh\_TW.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_he.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncRound.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IntExpr.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Fallback.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ja.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LangCall.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionsTable.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CastExpr.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_pl.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/TransletException.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringBufferPool.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_ca.java
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 \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage s\_hu.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_ru.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_pl.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xpath/Expression.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/TransformStateSetter.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathEvaluatorImpl.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionCall.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/RTFIterator.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeListBase.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/LocPathIterator.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_pt\_BR.java  
 \*  
 /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorInclude.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Message.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java  
 \* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java



- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLString.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionDecl.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/WrappedRuntimeException.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_de.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHMessages.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessageResources\_ca.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/SecuritySupport.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xml/utils/BoolStack.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_it.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncExtElementAvailable.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ArgumentList.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/DTMXRTreeFrag.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AnccestorPattern.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/EqualityExpr.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_en.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildTestIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ForEach.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_de.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringComparable.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Expression.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ApplyImports.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/ConnectionPoolManager.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorAttributeSet.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Quo.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/NSInfo.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/ExpandedNameTable.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/QName.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/GenerateIdCall.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshot.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_ca.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/QueryParameter.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessageResources\_es.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java

- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Param.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ObjectFactory.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_ru.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SlotAllocator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Number.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_el.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerHandlerImpl.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/Stylesheet.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIteratorSimple.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorsResources\_zh\_CN.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiValuedNodeHeapIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorsResources\_zh\_TW.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemElement.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ConcatCall.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorsResources\_de.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ResultNameSpace.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorLRE.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_fr.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/ObjectFactory.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_ja\_JP\_A.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLERrorsResources\_fr.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLERrorsResources\_cs.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMConfigurationException.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/XUnresolvedVariable.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncFalse.java
- \*
- /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_sl.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java

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\* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html

\*

/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xpath/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html

\*

/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html

\* /xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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\*/

/\*

\* \$Id: Version.src 468654 2006-10-28 07:09:23Z minchau \$

\*/

package org.apache.xml.serializer;

/\*\*

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

\*/

public final class Version

{

/\*\*

- \* Get the basic version string for the current Serializer.
- \* Version String formatted like
- \* <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.

\*

- \* Futurework: have this read version info from jar manifest.

\*

- \* @return String denoting our current version

\*/

public static String getVersion()

{

```
 return getProduct()+" "+getImplementationLanguage()+" "
 +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
 +((getDevelopmentVersionNum() > 0) ?
 ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
```

}

/\*\*

- \* Print the processor version to the command
- line.

\*

- \* @param argv command line arguments, unused.

\*/

public static void main(String argv[])

{

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

```

}

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

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

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

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

```

```

}

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

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development
drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * 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):

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src  
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```
/*
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 * PURPOSE.
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 */
```

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java  
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 * limitations under the License.
 */
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java  
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* limitations under the License.
*/
/*
* $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>"Xalan Language
 * v.r[.dd] Dnn]"</CODE>.
 * <P>Semantics of the version string are
 identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
 +VERSION+"."+RELEASE+"."
 +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
 : (""+MAINTENANCE));

}

```

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 * limitations under the License.
*/

```

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 \* limitations under the License.  
 \*/  
 // Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_text.properties  
 \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_xml.properties  
 \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_unknown.properties  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties  
 \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output\_html.properties  
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\*/  
/\*\*

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

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java

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\*/

/\*

\* \$Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas \$

\*/

package org.apache.xalan;

/\*\*

\* Administrative  
class to keep track of the version number of  
\* the Xalan release.  
\* <P>This class implements the upcoming standard of having  
\* org.apache.project-name.Version.getVersion() be a standard way  
\* to get version information. This class will replace the older  
\* org.apache.xalan.processor.Version class.</P>  
\* <P>See also: org/apache/xalan/res/XSLTInfo.properties for  
\* information about the version of the XSLT spec we support.</P>

```

* @xsl.usage general
*/
public class Version
{

 /**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"Xalan Java v.r[.dd| Dnn]"</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):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

## 1.189 ant 1.10.15

### 1.189.1 Available under license :

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- \* /jline-3-29-0-jar/META-INF/services/org/jline/terminal/provider/ffm
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Manifest-Version: 1.0

Created-By: Apache Maven Bundle Plugin 6.0.0

Build-Jdk-Spec: 22

Automatic-Module-Name: org.jline

Bundle-Description: JLine

Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: JLine Bundle

Bundle-SymbolicName: org.jline

Bundle-Version: 3.29.0

Export-Package: org.jline.builtins;uses:="org.jline.keymap,org.jline.reader,org.jline.terminal,org.jline.utils";version="3.29.0",org.jline.builtins.ssh;uses:="org.apache.sshd.client,org.apache.sshd.server,org.apache.sshd.server.channel,org.apache.sshd.server.command,org.apache.sshd.server.session,org.apache.sshd.server.shell,org.jline.reader,org.jline.terminal";version="3.29.0",org.jline.builtins.telnet;uses:="org.jline.terminal";version="3.29.0",org.jline.console;uses:="org.jline.builtins,org



.jline.reader,org.jline.reader.impl.completer,org.jline.terminal,org.jline.
 utils";version="3.29.0",org.jline.console.impl;uses="org.jline.bu
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 e.reader.impl.completer,org.jline.terminal,org.jline.utils";version="3.
 29.0",org.jline.jansi;version="3.29.0";uses="org.jline.jansi.io,org.jl
 ine.terminal",org.jline.jansi.io;version="3.29.0";uses="org.jline.jans
 i,org.jline.utils",org.jline.keymap;uses="org.jline.terminal,org.jline
 .utils";version="3.29.0",org.jline.nativ;version="3.29.0",org.jline.nat
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 4;version="3.29.0",org.jline.nativ.Linux.x86;version="3.29.0",org.jline
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 ="org.jline.keymap,org.jline.reader,org.jline.terminal,org.jline.utils"
 ;version="3.29.0",org.jline.reader.impl.completer;uses="org.jline.read
 er,org.jline.terminal";version="3.29.0",org.jline.reader.impl.history;u
 ses="org.jline.reader";version="3.29.0",org.jline.style;uses="javax.a
 nnotation,org.jline.terminal,org.jline.utils";version="3.29.0",org.jlin
 e.terminal;uses="org.jline.terminal.spi,org.jline.utils";version="3.29
 .0",org.jline.terminal.impl;uses="org.jline.terminal,org.jline.termina
 l.spi,org.jline.utils";version="3.29.0",org.jline.terminal.impl.exec;us
 es="org.jline.terminal,org.jline.terminal.impl,org.jline.terminal.spi"
 ;version="3.29.0",org.jline.terminal.impl ffm;uses="org.jline.terminal
 ,org.jline.terminal.impl,org.jline.terminal.spi";version="3.29.0",org.j
 line.terminal.impl.jansi;uses="org.fusesource.jansi.internal,org.jline
 .terminal,org.jline.terminal.impl,org.jline.terminal.spi";version="3.29
 .0",org.jline.terminal.impl.jansi.freebsd;uses="org.fusesource.jansi.i
 nternal,org.jline.terminal,org.jline.terminal.impl.jansi,org.jline.term
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 g.jline.terminal.impl.jna,org.jline.terminal.spi";version="3.29.0",org.
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.jline.terminal.impl.jna,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jna.osx;uses="com.sun.jna,org.jline.terminal,org.jline.terminal.impl.jna,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jna.solaris;uses="com.sun.jna,org.jline.terminal,org.jline.terminal.impl.jna,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jna.win;uses="com.sun.jna,org.jline.terminal,org.jline.terminal.impl,org.jline.terminal.spi,org.jline.utils";version="3.29.0",org.jline.terminal.impl.jni;uses="org.jline.nativ,org.jline.terminal,org.jline.terminal.impl,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jni.freebsd;uses="org.jline.nativ,org.jline.terminal,org.jline.terminal.impl.jni,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jni.linux;uses="org.jline.nativ,org.jline.terminal,org.jline.terminal.impl.jni,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jni.osx;uses="org.jline.nativ,org.jline.terminal,org.jline.terminal.impl.jni,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jni.solaris;uses="org.jline.nativ,org.jline.terminal,org.jline.terminal.impl.jni,org.jline.terminal.spi";version="3.29.0",org.jline.terminal.impl.jni.win;uses="org.jline.terminal,org.jline.terminal.impl,org.jline.terminal.spi,org.jline.utils";version="3.29.0",org.jline.terminal.spi;uses="org.jline.terminal";version="3.29.0",org.jline.utils;uses="org.jline.terminal";version="3.29.0",org.jline.widget;uses="org.jline.console,org.jline.keymap,org.jline.reader,org.jline.utils";version="3.29.0"

Import-Package: com.sun.jna;resolution:=optional;version="[5.16,6)",com.sun.jna.ptr;resolution:=optional;version="[5.16,6)",com.sun.jna.win32;resolution:=optional;version="[5.16,6)",java.awt;resolution:=optional,java.io;resolution:=optional,java.lang;resolution:=optional,java.lang.annotation;resolution:=optional,java.lang.foreign;resolution:=optional,java.lang.invoke;resolution:=optional,java.lang.management;resolution:=optional,java.lang.reflect;resolution:=optional,java.math;resolution:=optional,java.net;resolution:=optional,java.nio;resolution:=optional,java.nio.charset;resolution:=optional,java.nio.file;resolution:=optional,java.nio.file.attribute;resolution:=optional,java.security;resolution:=optional,java.text;resolution:=optional,java.time;resolution:=optional,java.time.format;resolution:=optional,java.time.temporal;resolution:=optional,java.util;resolution:=optional,java.util.concurrent;resolution:=optional,java.util.concurrent.atomic;resolution:=optional,java.util.concurrent.locks;resolution:=optional,java.util.function;resolution:=optional,java.util.logging;resolution:=optional,java.util.regex;resolution:=optional,java.util.stream;resolution:=optional,javax.annotation;resolution:=optional;version="[3.0,4)",org.apache.sshd.client;resolution:=optional,org.apache.sshd.client.auth.keyboard;resolution:=optional,org.apache.sshd.client.channel;resolution:=optional,org.apache.sshd.client.future;resolution:=optional,org.apache.sshd.client.session;resolution:=optional,org.apache.sshd.common;resolution:=optional,org.apache.sshd.common.channel;resolution:=optional,org.apache.sshd.common.config.keys;resolution:=optional,org.apache.sshd.common.keyprovider;resolution:=optional,org.apache.sshd.common.session;resolution:=optional,org.apache.sshd.common.

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Originally-Created-By: Apache Maven Bundle Plugin 6.0.0

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-7.0.0.202310060912

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\* /jline-3-29-0-jar/META-INF/MANIFEST.MF

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\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-reader/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-terminal-ffmpeg/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-terminal-jni/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-builtins/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-style/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml  
\* /jline-3-29-0-jar/META-INF/maven/org.jline/jline-terminal/pom.xml

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## 1.192 checker-qual 2.5.5

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\* /checker-qual-2-5-5-sources-jar/org/checkerframework/checker/lock/qual/GuardedBy.java

## 1.193 ecj 4.20

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.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 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
*****/

```

Found in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Reference.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)
*****/

```

Found

in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java  
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/RecordComponent.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.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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Found in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BinaryExpression.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

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LambdaExpression.java

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ModuleReferenceImpl.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/BasicModule.java

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\* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 455723 - Nonnull argument not correctly inferred in loop

\* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

\* Bug 446691 - [1.8][null][compiler] NullPointerException in SimpleNameReference.analyseCode

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* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
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* Bug 407191 - [1.8] Binary access support for type annotations
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\* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?

\* Jesper S Moller - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

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\* 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

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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
*****/

```

Found in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/EmptyStatement.java

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*
* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
* Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*****/

```

Found in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/IntersectionTypeBinding18.java

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\* Contributors:

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\* Stephan Herrmann - Contributions for

\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 358903 - Filter practically unimportant resource

leak warnings

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 417295 - [1.8][null] 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 SingleNameReference.localVariableBinding

\* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

\* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

\* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

\* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

\* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

\* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

\* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.

\* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?

\* Bug 428352 - [1.8][compiler] Resolution errors don't always surface

\* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding

- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- \* Bug 434297 - [1.8] NPE in LambdaExpression.analyseCode with lambda expression nested in a conditional expression
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive  
code generation support for type annotations (from Olivier's work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic  
bridge method
- \* Till Brychcy - Contributions for
- \* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
- \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- \* Bug 473178

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/AllocationExpression.java

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\* Contributors:

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\* Stephan Herrmann - Contribution for

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CombinedBinaryExpression.java

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- \* Stephan Herrmann - Contributions for
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
- \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields
- \* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
- \* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

\*\*\*\*\*/

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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeIds.java

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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBound.java



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* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*****/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UnaryExpression.java

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationInfo.java

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* bug 319201 - [null] no warning when unboxing 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
*****/

```

Found in path(s):

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
*****/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfo.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.

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\* 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
- \* EnumStaticFieldInInitializerContext
- \* 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
- \* RepeatableAnnotationHasTargets
- \* RepeatableAnnotationTargetMismatch

- \* RepeatabeAnnotationIsDocumented
- \* RepeatabeAnnotationIsInherited
- \* RepeatabeAnnotationWithRepeatingContainerAnnotation
- \* VarLocalMultipleDeclarators
- \* VarLocalCannotBeArray
- \* VarLocalReferencesItself
- \* VarLocalWithoutInitiazlier
- \* VarLocalInitializedToNull
- \* VarLocalCannotBeArrayInitalizers
- \* VarLocalCannotBeLambda
- \* VarLocalCannotBeMethodReference
- \* VarIsReserved
- \* VarIsReservedInFuture
- \* VarIsNotAllowedHere

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/JrtFileSystem.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

\* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field

\* Bug 458396 - NPE in CodeStream.invoke()

\* Jesper S Moller - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 378674 - "The method can be declared as static" is wrong

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java

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\*   Till Brychcy - Contributions for  
\*         Bug 467482 - TYPE\_USE null annotations: Incorrect "Redundant null check"-warning  
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\* Jesper S Moller - Contributions for

\* Bug 378674 - "The method can be declared as static" is wrong

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 \* Stephan Herrmann - Contribution for  
 \* bug 383368 - [compiler][null] syntactic null analysis for field references  
 \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
 \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking  
 \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
 \* Bug 417295 - [1.8][null]  
 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 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param  
 \* Andy Clement - Contributions for  
 \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\* Bug 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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```

* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java

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\* bug 407191 - [1.8] Binary access support for type annotations  
\* Stephan Herrmann - Contribution for  
\* Bug 440474 - [null] textual encoding of external null annotations  
\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryType.java

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java

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\* wharley@bea.com - initial API and implementation

\* IBM Corporation - fix for 342470

\* IBM Corporation - fix for 342598

\* IBM Corporation - Java 8 support

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* Bug 186342 - [compiler][null] Using annotations for null checking
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* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation
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\* bug 186342 - [compiler][null] Using annotations for null checking  
\* bug 365519 - editorial cleanup after bug 186342 and bug 365387  
\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults  
\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java

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\* 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 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking  
\* Bug 415790  
- [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch  
\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java  
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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 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to  
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

\* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type

annotations after bug 392099

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434600 - Incorrect null analysis error reporting on type parameters

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

\* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
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* IBM Corporation - fix for 342936
* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Frits Jalvingh - fix for bug 533830.
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 \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
 \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
 \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
 \* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute  
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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java

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- \* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
- \* bug 186342 - [compiler][null] Using annotations for null checking

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java
* /ecj-3-26-0-sources-
jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java

```

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* wharley@bea.com - initial API and implementation
*
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* Frits Jalvingh - fix for bug 533830.
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* Contributors:
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* Stephan Herrmann - Contribution for
* 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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\* 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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\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

\* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8

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\*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\*   Bug 473178

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\*   wharley@bea.com - initial API and implementation

\*   IBM Corporation - fix for 342598

\*   IBM Corporation - Java 8 support

\*   het@google.com - Bug 427943 - The method

org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.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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  - bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
  - bug 292478 - Report potentially null across variable assignment
  - bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
  - bug 354554 - [null] conditional with redundant condition

yields weak error message

- bug 349326 - [1.7] new warning for missing try-with-resources
- bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- bug 383368 - [compiler][null] syntactic null analysis for field references
- bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
- Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
- Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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- \* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 407191 - [1.8] Binary access support for type annotations

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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contribution for
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388954 - [1.8][compiler] detect default methods in class files
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
to be declared abstract
* bug 390883 - [1.8][compiler] Unable to override default method
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
* bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
* bug 409473 - [compiler] JDT cannot compile against JRE 1.8
* Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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* Stephan Herrmann - Contribution for
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*****/

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\* David Foerster - patch for toUpperCase as described in [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=153125](https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125)

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* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* IBM Corporation - fix for bug 342757
* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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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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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java

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- \* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

- \* bug 349326 - [1.7] new warning for missing try-with-resources

- \* bug 265744 - Enum switch should warn about missing default
- \* bug 374605 - Unreasonable warning for enum-based switch statements
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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- \* 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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\* Matt McCutchen - partial fix for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=122995](https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995)

\* Karen Moore - fix for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=207411](https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411)

\* Stephan Herrmann <[stephan@cs.tu-berlin.de](mailto: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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- \* IBM Corporation - initial API and implementation

- \* Stephan Herrmann - Contributions for

- \* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to  
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

- \* Bug 416181 - [1.8][compiler][null] Invalid assignment

is not rejected by the compiler

- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

- \* Bug 434600 - Incorrect null analysis error reporting on type parameters

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"  
\* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>  
\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param  
\* Andy Clement - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\* Stephan Herrmann - Contributions for

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 367203 - [compiler][null] detect assigning null to nonnull argument

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* bug 382353 - [1.8][compiler] Implementation property modifiers

should be accepted on default methods.

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

- \* bug 401030 - [1.8][null] Null analysis support for lambda methods.
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
- \* Bug 417295 - [1.8][null] 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 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java  
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\* Stephan Herrmann - Contributions for  
\* bug 292478 - Report potentially null across variable assignment  
\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types  
\* bug 331649 - [compiler][null] consider null annotations for fields  
\* bug 383368 - [compiler][null] syntactic null analysis for field  
\*\*\*\*\*/

#### references

- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 417295 - [1.8][null] 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 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 426996 - [1.8][inference]  
try to avoid method Expression.unresolve()?
- \* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
Bug 473178

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\* Bug 407191 - [1.8] Binary access support for type annotations

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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

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

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\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

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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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\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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- \* Benjamin Muskalla - Contribution for bug 239066
- \* Stephan Herrmann - Contributions for
  - bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
  - bug 295551 - Add option to automatically promote all warnings to errors
  - bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug
  - 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 366063 - Compiler should not add synthetic @NonNull annotations
- \* bug 374605 - Unreasonable warning for enum-based switch statements
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper Steen Moller - Contributions for
  - bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
  - bug 407297 - [1.8][compiler] Control generation of parameter names by option

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\* 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] Message 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):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java

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- \* Jesper S Moller - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions
- \* Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
- \* Stephan Herrmann - Contribution for
- \* bug 402028 - [1.8][compiler] null analysis for reference expressions
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- \* Bug 427438
- [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
- \* Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 438945 - [1.8] NullPointerException
- InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.java

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* Stephan Herrmann - Contribution for
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
*****/

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* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 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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Found in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java

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* Walter Harley - Patch for ensuring the parent folders are created
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java

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\* Tom Tromey - Contribution for bug 125961

\* Tom Tromey - Contribution for bug 159641

\* Benjamin Muskalla - Contribution for bug 239066

\* Stephan Herrmann - Contributions for

\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

\* bug 295551 - Add option to automatically promote all warnings to errors

\* bug 359721 - [options] add command line option

for new warning token "resource"

\* bug 365208 - [compiler][batch] command line options for annotation based null analysis

\* bug 374605 - Unreasonable warning for enum-based switch statements

- \* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
- \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- \* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
- \* Bug 408815 - [batch][null] Add CLI option for

#### COMPILER\_PB\_SYNTACTIC\_NULL\_ANALYSIS\_FOR\_FIELDS

- \* Jesper S Moller - Contributions for
- \* bug 407297 - [1.8][compiler] Control generation of parameter names by option
- \* Mat Booth - Contribution for bug 405176
- \* Frits Jalvingh -
- fix for bug 533830.

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\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

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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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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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* bug 383368 - [compiler][null] syntactic null analysis for field references
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
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* Bug 440474 - [null] textual encoding of external null annotations
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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 SingleNameReference causes NPE
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug
- 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 379784 - [compiler] "Method can be static" is not getting reported
- \* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- \* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
- \* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?

- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 427438 - [1.8][compiler]

NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
- \* Bug 470958 - [1.8] Unable to convert lambda
- \* Bug 410218 - Optional warning

for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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\* Stephan Herrmann - Contributions for

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 417295 - [1.8][null] Massage type annotated

null analysis to gel well with deep encoded type bindings.

\* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\*\*\*\*\*/

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\* 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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\* Contributors:  
\* tyeung@bea.com - initial API and implementation  
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java

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\* Stephan Herrmann - Contribution for

\* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code

\* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

\* bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by 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](mailto: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](mailto:tardieu@us.ibm.com)) - Contributions for

\* Bug 442418 - \$deserializeLambda\$ off-by-one error when deserializing the captured arguments of a lambda that also capture this

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java  
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\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for  
\* Bug 407191 - [1.8] Binary access support for type annotations  
\*\*\*\*\*/

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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

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
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```
* bug 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
```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ArrayAllocationExpression.java
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\* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks

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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 388795 - [compiler] detection of name clash depends on order of super interfaces
* bug 388739 - [1.8][compiler] consider default methods when detecting whether
a class needs to be declared abstract
* bug 390883 - [1.8][compiler] Unable to override default method
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
* bug 409473 - [compiler] JDT cannot compile against JRE 1.8
* Bug 420080 - [1.8] Overridden Default method is reported as duplicated
* Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed

```

- \* Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 440773 - [1.8][null]DefaultLocation.RETURN\_TYPE erroneously affects method parameters in @NonNullByDefault
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 - [1.8] merge null annotations from super methods

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\* Bug 428811 - [1.8][compiler] Type witness unnecessarily required

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 364890 - BinaryTypeBinding should use char constants from Util

\* bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug

365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* bug 388800 - [1.8][compiler] detect default methods in class files

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

\* Bug 392245 - [1.8][compiler][null] Define whether

/ how @NonNullByDefault applies to TYPE\_USE locations

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

\* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations

\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)

\* Bug 454182 - Internal compiler error when using

1.8 compliance for simple project

\* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

\* Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning

\* Jesper Steen Moller - Contributions for

- \* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
- \* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* Sebastian Zarnekow - Contributions for
- \* bug 544921 - [performance] Poor performance with large source files
- \* Alexander Lehmann - Contributions for
- \* bug 566258 - Intermittent NPE in APT RoundDispatcher

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- \* Stephan Herrmann - Contribution for

- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- \* Bug

415291 - [1.8][null] differentiate type incompatibilities due to null annotations

- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray

- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine

- \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

- \* Bug 441693 -

[1.8][null] Bogus warning for type argument annotated with @NonNull

- \* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

- \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\*\*\*\*\*/

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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java



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* bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 -
* [1.8][compiler][codegen] Implement support for serializable lambdas
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.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
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- \* 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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\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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 \* Stephan Herrmann - Contributions for  
 \* bug 349326 - [1.7] new warning for missing try-with-resources  
 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 365519 - editorial cleanup after bug 186342 and bug 365387  
 \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK  
 \* bug 382353 - [1.8][compiler] Implementation property modifiers should  
 be accepted on default methods.  
 \* bug 383368 - [compiler][null] syntactic null analysis for field references  
 \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
 \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations  
 \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables  
 \* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this  
 location  
 \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
 \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param  
 \* Jesper S Moller <jesper@selskabet.org> - Contributions for  
 \* bug 378674 - "The method can be declared as static" is wrong  
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\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

- \* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

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\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

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\* Dennis Hendriks - initial API and implementation

\* IBM Corporation - Contribution for bug 188796

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 331649 - [compiler][null] consider null annotations for fields

\* Bug 417295 - [1.8][null] 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.  
\*\*\*\*\*/

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 370930 - NonNull annotation not considered for enhanced for loops

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 393719 - [compiler] inconsistent warnings

on iteration variables

\* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

\* Jesper S Moller - Contribution for

\* bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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\*       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\*       Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

\*       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references

\*

      Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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* Jesper S Moller - Bug 392671
* NPE with a method with explicit this and a following incomplete parameter
*****/

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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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\* IBM Corporation - Fix for bug 341494

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\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* Stephan Herrmann - Contribution for

\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 416182 - [1.8][compiler][null]

Contradictory null annotations not rejected

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* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java

\*

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/CompilationResult.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java

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\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

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- \* bug 317046 - Exception during debugging when hover mouse over a field
- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
- \* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
- \* Bug 435962 - [RC2] StackOverFlowError when building
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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\* Stephan Herrmann - Contribution for

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

\* Sebastian Zarnekow - Contribution for

\* Bug 544921 - [performance] Poor performance with large source files

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java

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* IBM Corporation - initial API and implementation
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* Bug 328281 - visibility leaks not detected when analyzing unused field in private class
* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
* Bug 354536 - compiling package-info.java still depends on the order of compilation units
* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug
358903 - Filter practically unimportant resource leak warnings
* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
Contributions for
* Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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\* Walter Harley - initial API and implementation

\* IBM Corporation - fix for 342598, 382590

\* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java
*
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java
*
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ICompilerRequestor.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java
*

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/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
*
/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfType.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java
*
/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/Archive.java

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java

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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 385626 - @NonNull fails across
* loop boundaries
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
* checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions for
* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

```

- \* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 425783 - An

internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError

- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java

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- \* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

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\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

\* bug 358903 - Filter practically unimportant resource leak warnings

\* Bug 417295 - [1.8][null] 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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\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

\* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)

\* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com

- Contributions for

\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

\* Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:  
"Invalid lambda deserialization"

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java

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\*     bug 331649 - [compiler][null] consider null annotations for fields  
\*     Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
\*     Bug 458396 - NPE in CodeStream.invoke()  
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VariableBinding.java

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- \* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
- \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- \* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* bug 407191 - [1.8] Binary access support for type annotations

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- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith

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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java

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- \* 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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Found in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/TryStatement.java

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\* bug 335093 - [compiler][null] minimal hook for future null annotation support

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when

compiling the Eclipse SDK

- \* bug 370930 - NonNull annotation not considered for enhanced for loops
  - \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
  - \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
  - \* bug 331649 - [compiler][null] consider null annotations for fields
  - \* bug 383368 - [compiler][null] syntactic null analysis for field references
  - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  - \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
  - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
  - \* Bug 417758 - [1.8][null] Null safety compromise during array creation.
  - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
  - \* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
  - \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  - \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
  - \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 455723 - Nonnull argument not correctly inferred in loop
  - \* Andy Clement - Contributions for
    - \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
    - \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- \*\*\*\*\*/

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

\* bug 292478 - Report potentially null across variable assignment

\* bug 335093 - [compiler][null] minimal hook for future null annotation support

- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Bug 529556 - [18.3] Add content assist support for 'var' as a type
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
- \* Bug 426616 - [1.8][compiler] Type Annotations, multiple problems

\*\*\*\*\*/

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\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java

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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
* Stephan Herrmann - Contribution for
* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403147 - [compiler][null] FUP of bug 400761:
consolidate interaction between unboxing, NPE, and deferred checking
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* Perry James - nullStatus method improvement (165346)
* Stephan Herrmann - Contribution for
* bug 383368 - [compiler][null] syntactic null analysis for field references
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
```

- \* bug 292478 - Report potentially null across variable assignment,
- \* bug 185682 - Increment/decrement operators mark local variables as read
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
- \* Bug 458396 - NPE in CodeStream.invoke()
- \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \* Jesper S Moller - <jesper@selskabet.org> - Contributions for
  - \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
  - \* bug 378674 - "The method can be declared as static" is wrong
  - \* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
  - \* bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type

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- \* Jesper S Moller - Contributions for

- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

- \* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

- \* Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)

- \* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container

- \* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto: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  
\*\*\*\*\*/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java

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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking

```

- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 435570 - [1.8][null] @NonNullByDefault

illegally tries to affect "throws E"

- \* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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- \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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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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* Stephan Herrmann - Contributions for
* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
* generics (RuntimeException instead of IOException)

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 \* Stephan Herrmann - Contributions for  
 \* 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  
 \*\*\*\*\*/

Found  
 in path(s):  
 \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java  
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 \* BEA - Patch for bug 172743  
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 \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/AbstractAnnotationProcessorManager.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
*****/

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*****/

```

Found in path(s):

```

* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
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- \* Stephan Herrmann - Contributions for
- \* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
- \* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods

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Found in path(s):

- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java

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\* Bug 473178

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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```

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleTypeReference.java

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
*
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java

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* Stephan Herrmann - Contribution for
* Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*****/

```

/\* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a with a single binding, e.g:

```

@T Z; type => Z annotations => [[@T]]
 @T Y.@T Z type => Z annotations => [[@T][@T]]
 @T X.@T Y.@T Z type => Z annotations => [[@T][@T][@T]]
 java.lang.@T X.@T Y.@T Z type => Z annotations => [[[]][@T][@T][@T]]
 in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
 layout for proper attribution.
*/

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug 395002 - Self bound generic class

doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 417295 - [1.8][null] 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 426792 - [1.8][inference][impl] generify new type inference engine

\* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

\* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds

\* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName

\* Bug 431408 - Java 8 (1.8) generics bug

\* Bug 435962 - [RC2] StackOverFlowError when building

\* Bug

438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict

\* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.

\* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables

\* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

\* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis

\* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics

\* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief

\* Bug 462790 - [null] NPE in Expression.computeConversion()

\* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages

\* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblemFactory.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java

\*

/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ReferenceContext.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java

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* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect
'potential resource leak'
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred

```

checking

- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload

context

- \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
- \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
- \* Bug 427438 - [1.8][compiler]

NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic

bridge method

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- \* Stephan Herrmann - Contributions for

- \* 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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* Contributors:
* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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* IBM Corporation - initial API and implementation
*****/
```

Found in path(s):

```
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
```

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java  
\*  
/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java  
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\* IBM Corporation - initial API and implementation  
\* 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):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java  
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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java

\*

/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/impl/Constant.java

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\* Stephan Herrmann - Contributions for

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up

of bug 401088: Missing warning about redundant null check

\* Bug 440282 - [resource] Resource leak detection false negative with empty finally block

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Block.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
*****/

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Found in path(s):

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/BoundSet.java
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* bug 383368 - [compiler][null] syntactic null analysis for field references
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Found in path(s):

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/NullLiteral.java
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 \* Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749  
 \* Stephan Herrmann - Contribution for  
 \* bug 331649 - [compiler][null] consider null annotations for fields  
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\* Benjamin Muskalla - Contribution for bug 239066

\* Stephan Herrmann - Contributions for

\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

\* bug 338303 - Warning about Redundant assignment conflicts with definite assignment

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

\* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 376053 - [compiler][resource] Strange potential resource leak problems

\* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

\* bug 393719 - [compiler] inconsistent warnings on iteration

variables

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared

abstract

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null

\* bug 376590 - Private fields with @Inject are ignored by unused field validation

- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402028 - [1.8][compiler] null analysis for reference expressions
- \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug
- 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
- \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
- \* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
- \* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations
- \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 438467 - [compiler][null] Better error position for "The method \_ cannot implement the corresponding method \_ due to incompatible nullness constraints"
- \* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
- \* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds

- \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields

\*\*\*\*\*/

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* bug 413958 - Function override returning inherited Generic Type

\* Bug 400874 - [1.8][compiler] Inference infrastructure

should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding



- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
- \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 457079 - Regression: type  
inference

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\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contributions for

\* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it  
extends the outer class

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/NestedTypeBinding.java

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* Contributors:
* IBM Corporation - initial API and implementation
* Genady Beriozkin - added support for reporting assignment with no effect
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 292478 - Report potentially null across variable assignment
* bug 335093 - [compiler][null] minimal hook for future null annotation support
* bug 349326 - [1.7] new warning for missing
try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 402993 - [null] Follow up of bug 401088: Missing
warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/Assignment.java

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- \* IBM Corporation - initial API and implementation
- \* Stephan Herrmann - contributions for
- \* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug
- 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
- \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 416190 - [1.8][null]
- detect incompatible overrides due to null type annotations
- \* Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
- \* Bug 457079 - Regression: type inference
- \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- \* Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
- \* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

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- \* 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 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 365835 - [compiler][null] inconsistent error reporting.
- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
- \* bug 358903 - Filter practically unimportant resource leak warnings
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 401030 - [1.8][null] Null analysis support for lambda methods.
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 417758 - [1.8][null] Null safety compromise during array creation.
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Jesper S Moller - Contributions
- for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java

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- \* Bug 458396 - NPE in CodeStream.invoke()

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- \* Stephan Herrmann - Contribution for
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\*\*\*\*\*/

Found in path(s):

- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java

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\* Stephan Herrmann - Contribution for

\* bug 384380 - False positive on a "Potential null pointer access" after a continue

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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\* 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] 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 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

\* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this

location

- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
- \* Bug 443347 - [1.8][null]

@NonNullByDefault should not affect constructor arguments of an anonymous instantiation

- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
- \* Bug 471611 - Error on hover on call to generic method with null annotation
- \* Jesper Steen Moller - Contributions for
- \* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
- \*
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java

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\* 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  
\*\*\*\*\*/

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\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java  
\*  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java  
\*/ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java  
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* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 404728 - [1.8]NPE on QualifiedSuperReference error
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedSuperReference.java

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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/messages.properties
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties

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- \* 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](mailto:aclement@gopivotal.com) - Contributions for
- \* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java  
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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* bug 403086 - [compiler][null] include the effect of 'assert'
* in syntactic null analysis for fields
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* 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 but not on incremental build?
- \* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
- \* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
- \* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
- \* Bug 546084 - Using JUnit 5s MethodSource leads to ClassCastException

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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java

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- \* het@google.com - Bug 441790

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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 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 Zarnekow - Contributions

for

- \* bug 544921 - [performance] Poor performance with large source files

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java  
\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java

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\*   IBM Corporation - initial API and implementation

\*   Stephan Herrmann - Contributions for

\*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\*   bug 370639 - [compiler][resource] restore the default for resource leak warnings

\*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\*   Bug 417758 - [1.8][null] Null safety compromise during array creation.

\*   Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* Contributors:
* wharley@bea.com - initial API and implementation
*
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* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.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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\* 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

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\* (originally in org.eclipse.jdt.apr.core)

\* IBM Corporation - Bug 513790

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* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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```

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* Bug 407297: [1.8][compiler] Control generation of parameter names by option
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\*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

\* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations

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\* IBM Corporation - Fix for bug 328575

\* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.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 434602 - Possible error with inferred null annotations leading to contradictory null annotations
 * Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
 * analysis
 * Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
 * Till Brychcy - Contribution for
 * Bug 473713
 * - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
 */
```

/\* Cache the derived type, tagging it as a derivative of both the key type and the naked type.

E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not

needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

Taking parameterized types as an example, a call to `getParamaterizedType` can be made with annotations to create `@NonNull List<@NonNull String>` in one stroke. Or a parameterized type can be created first and then annotated via `getAnnotatedType`. In the former case, the tables get looked up with `List` as the key, in the latter with `List<String>` as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these alternate code paths. Unless care is exercised, we will end up with duplicate objects (that share the same `TypeBinding.id` => correctness is not an issue, but memory wastage is)

```
*/
```

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- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
- \* Stephan Herrmann - Contribution for
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 429958
- [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java

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\* Tom Tromey - patch for readTable(String) as described in [http://bugs.eclipse.org/bugs/show\\_bug.cgi?id=32196](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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\* [olivier\\_thomann@ca.ibm.com](mailto:olivier_thomann@ca.ibm.com) - add hashCode() and equals(..) methods

\*\*\*\*\*/

Found in path(s):

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java

\* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java

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\* Stephan Herrmann - Contribution for

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds

\* Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard

\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker  
hint from applicability analysis

\* Bug 456924 - StackOverflowError during compilation

\* Bug 462790 - [null] NPE in Expression.computeConversion()

\* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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\* 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

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\* bug 325755 - [compiler] wrong initialization state after conditional expression

\* bug 320170 - [compiler] [null] Whitebox issues in null analysis

\* bug 292478 - Report potentially null across variable assignment

\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection

\* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators
mark local variables as read
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* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 421035 - [resource]
False alarm of resource leak warning when casting a closeable in its assignment
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* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 458396 - NPE in CodeStream.invoke()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
- \*
- /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
- \* /ecj-3-26-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java

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org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

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# 1.198 netty-transport-native-kqueue

## 4.1.60.Final

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```
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/netty_kqueue_bsdsocket.h
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
*
/netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueue.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/BsdSocket.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannel.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/netty_kqueue_bsdsocket.c
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoop.java
*
/netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
```

```

jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/AcceptFilter.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/package-info.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/netty_kqueue_eventarray.c
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/netty_kqueue_native.c
*
/netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueueChannelConfig.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/netty_kqueue_eventarray.h
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/Native.java
* /netty-transport-native-kqueue-4-1-60-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java
* /netty-transport-native-kqueue-4-1-60-final-sources-
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
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```

* /netty-transport-native-kqueue-4-1-60-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-
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```

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\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java  
\*

/hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/HikariJNDIFactory.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/HikariPool.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/MetricsTracker.java

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\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/HikariConfig.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyResultSet.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/JavassistProxyFactory.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/DriverDataSource.java  
\*

/hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/SuspendResumeLock.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/ConcurrentBag.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/FastList.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyFactory.java  
\* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyConnection.java

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* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/HikariDataSource.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/HikariPoolMXBean.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
*
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/PropertyElf.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyCallableStatement.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/ProxyStatement.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/UtilityElf.java

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* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java
* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/PoolEntry.java

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- \* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/util/ClockSource.java
- \* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/PoolStats.java

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- \* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/pool/PoolBase.java
- \* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTrackerFactory.java
- \* /hikaricp-java7-2-4-13-sources-7-jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java

# 1.201 jna 5.14.0

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The primary ANTLR guy:

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parrt@cs.usfca.edu  
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No source code of the original library was modified.

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Modified by Atlassian

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework  
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Version:

1.1.2

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Version 2.1, February 1999

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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

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

-----

## Oracle OpenJDK

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

- \* java.sun.security.ssl

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

-----  
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----  
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.  
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## 1.208

# system.runtime.interopservices.windowsruntime 4.8.3761

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# 1.209 tomcat-api 9.0.98

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- 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
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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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
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_4.xsd
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\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java

\*

/netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/KmpSearchProcessorFactory.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/BitapSearchProcessorFactory.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/SearchProcessor.java

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\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java

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\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/SizeClassesMetric.java  
\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/LongPriorityQueue.java  
\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/search/package-info.java  
\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/SizeClasses.java  
\*

/netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/LongLongHashMap.java

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\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/WrappedByteBuf.java  
\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java  
\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ReadOnlyByteBufferBuf.java  
\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufHolder.java  
\*

/netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufProcessor.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AbstractDerivedByteBuf.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/FixedCompositeByteBuf.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/SimpleLeakAwareByteBuf.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/UnreleasableByteBuf.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/EmptyByteBuf.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java

\* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java

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Found in path(s):

```

* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ReadOnlyByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufUtil.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PoolChunk.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/SwappedByteBuf.java
*
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PoolArena.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PoolSubpage.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/UnpooledDirectByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AbstractByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AbstractByteBufAllocator.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PoolThreadCache.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PooledByteBufAllocator.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/SlicedByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/package-info.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/CompositeByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PoolChunkList.java
*
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PooledByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufAllocator.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/DuplicatedByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/UnpooledHeapByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PooledDirectByteBuf.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/Unpooled.java
* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/ByteBufInputStream.java
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- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java
- \*
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
- \* /netty-buffer-4-1-60-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java

# 1.214 commons-io 2.20.0

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\* /servlet-api-2-5-sources-8-jar/javax/servlet/FilterChain.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSession.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/FilterConfig.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletRequestEvent.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionActivationListener.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpServletRequest.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletRequestAttributeListener.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletResponse.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletContextEvent.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionBindingListener.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletRequestWrapper.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletConfig.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpServletRequestWrapper.java  
\*  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionBindingEvent.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletResponseWrapper.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletContextListener.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/Filter.java

\* /servlet-api-2-5-sources-8-jar/javax/servlet/Servlet.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpServletResponseWrapper.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/RequestDispatcher.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletRequestListener.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionContext.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/UnavailableException.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletRequest.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionListener.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletContextAttributeEvent.java  
\*  
/servlet-api-2-5-sources-8-jar/javax/servlet/ServletException.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletRequestAttributeEvent.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpServletResponse.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/GenericServlet.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/SingleThreadModel.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletInputStream.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpUtils.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionEvent.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletOutputStream.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/Cookie.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletContext.java  
\* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionAttributeListener.java  
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CONFIDENTIAL flag will indicate that the use of SSL is  
<xsd:enumeration value="CONFIDENTIAL"/>

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\* /servlet-api-2-5-sources-8-jar/dtd/javaee\_web\_services\_client\_1\_2.xsd  
\* /servlet-api-2-5-sources-8-jar/dtd/javaee\_5.xsd  
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\* /servlet-api-2-5-sources-8-jar/dtd/j2ee\_web\_services\_client\_1\_1.xsd

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\* /servlet-api-2-5-sources-8-jar/javax/servlet/package.html

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```

Found in path(s):

```
* /stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
* /stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/OutVar.java
```

## 1.217 ezmorph 1.0.6

## 1.218 jboss-transaction-api 1.1.1.Final

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\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/internal/package-info.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
\*  
/netty-transport-4-1-60-final-sources-jar/io/netty/channel/internal/ChannelUtils.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/FailedChannel.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

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\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java  
\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java

```

*
/netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelId.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
*
/netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
*
/netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultChannelId.java
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* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java
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 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/ChannelPool.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
 *
 /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/package-info.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
 * /netty-transport-4-1-60-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
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- \* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/Bootstrap.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/embedded/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelPromise.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/VoidChannelPromise.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultFileRegion.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/NioTask.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/EventLoop.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/SocketChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/local/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelMetadata.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/EventLoopGroup.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelPipelineException.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/FileRegion.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java

- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelOption.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/AbstractServerChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/CombinedIterator.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelException.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/nio/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/local/LocalChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/EventLoopException.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultEventLoop.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/package-info.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/local/LocalAddress.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/FailedChannelFuture.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelInitializer.java
- \*
- /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelFuture.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
- \* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java

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* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/oio/package-info.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
*
/netty-transport-4-1-60-final-sources-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
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* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
*
/netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/SelectStrategy.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java
* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java

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\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java

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\*/

/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in

\* its {@link ChannelPipeline}.

\*

\* <h3>Sub-types</h3>

\* <p>

\* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its subtypes:

\* <ul>

\* <li>{@link

ChannelInboundHandler} to handle inbound I/O events, and</li>

\* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>

\* </ul>

\* </p>

\* <p>

\* Alternatively, the following adapter classes are provided for your convenience:

\* <ul>

\* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>

\* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>

\* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>

\* </ul>

\* </p>

\* <p>

\* For more information, please refer to the documentation of each subtype.

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}

\* object. A {@link ChannelHandler} is supposed to interact with the

- \* {@link ChannelPipeline} it belongs to via a context object. Using the
- \* context object, the {@link ChannelHandler} can pass events upstream or
- \* downstream, modify the pipeline dynamically,
- or store the information
- \* (using {@link AttributeKey}s) which is specific to the handler.
- \*
- \* <h3>State management</h3>
- \*
- \* A {@link ChannelHandler} often needs to store some stateful information.
- \* The simplest and recommended approach is to use member variables:
- \* <pre>
- \* public interface Message {
- \*     // your methods here
- \* }
- \*
- \* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message> {
- \*
- \*     <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 if (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 a 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}> {
- \*     {@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}<Message> {
* private final {@link AttributeKey}<{@link Boolean}> auth =
* {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* {@code @Override}
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
* {@link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) o);
* attr.set(true);
* } else (message instanceof GetDataMessage) {
* if (Boolean.TRUE.equals(attr.get())) {
* 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}<{@link Channel}> {
*
* private static final DataServerHandler SHARED = new DataServerHandler();
*
* {@code @Override}
* public void initChannel({@link Channel} channel) {
* channel.pipeline().addLast("handler", SHARED);
* }
* }
* </pre>
```

```

* }
* }
* </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
* the JCIP annotations.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

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`/netty-transport-4-1-60-final-sources-jar/io/netty/channel/ChannelHandlerMask.java`

`/netty-transport-4-1-60-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java`

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\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/AbstractEventLoop.java

\*

/netty-transport-4-1-60-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

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\* /netty-transport-4-1-60-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

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## 1.222 spring-expression 5.3.39

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Spring Framework 5.3.39

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# 1.223 javassist 3.28.0-GA

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```

Found in path(s):

```
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/ArrayInit.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/IntConst.java
*
* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformBefore.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/StackMap.java
* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Sample.java
* /javassist-3-28-0-ga-sources-jar/javassist/ClassPoolTail.java
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/MemberResolver.java
* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyObject.java
* /javassist-3-28-0-ga-sources-jar/javassist/convert/Transformer.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/LineNumberAttribute.java
* /javassist-3-28-0-ga-sources-jar/javassist/ClassClassPath.java
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Variable.java
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/KeywordTable.java
* /javassist-3-28-0-ga-sources-jar/javassist/CtConstructor.java
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/SyntaxError.java
*
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/Javac.java
* /javassist-3-28-0-ga-sources-jar/javassist/ByteArrayClassPath.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ClassFilePrinter.java
* /javassist-3-28-0-ga-sources-jar/javassist/CtClass.java
* /javassist-3-28-0-ga-sources-jar/javassist/ClassPool.java
* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/NewExpr.java
```

- \* /javassist-3-28-0-ga-sources-jar/javassist/util/HotSwapper.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtBehavior.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtMember.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/AssignExpr.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/TokenId.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/CompileError.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/Proxy.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/AccessorMaker.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyObjectOutputStream.java
- \*
- /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/AppletServer.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/IntQueue.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/Executor.java
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- \* /javassist-3-28-0-ga-sources-jar/javassist/ClassMap.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CannotCompileException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtNewWrappedConstructor.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/stackmap/TypeData.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/SecurityActions.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/DuplicateMemberException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ByteStream.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtNewClass.java
- \*
- /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/MultiArrayType.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/MethodHandler.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtField.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ConstPool.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Metaobject.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/ObjectNotFoundException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/scopedpool/SoftValueHashMap.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/Handler.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/MultiType.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/runtime/Cflow.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtNewMethod.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactory.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/CannotCreateException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/StubGenerator.java
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- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Symbol.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/runtime/DotClass.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/InstanceOfExpr.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/runtime/Desc.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Compiler.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/Util.java

- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/MemberCodeGen.java
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- \* /javassist-3-28-0-ga-sources-jar/javassist/CtMethod.java
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- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/stackmap/MapMaker.java
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- /javassist-3-28-0-ga-sources-jar/javassist/bytecode/NestHostAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/runtime/Inner.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/Loader.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/BadBytecode.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/Instanceof.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Reflection.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/DefineClassHelper.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/Translator.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Expr.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ConstantAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/ObjectImporter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/CondExpr.java
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- \* /javassist-3-28-0-ga-sources-jar/javassist/CtNewWrappedMethod.java
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- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ClassFileWriter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/CodeIterator.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/NoFieldException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/ExprEditor.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/MethodInfo.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/MethodDecl.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/DeprecatedAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/Lex.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/Parser.java
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- /javassist-3-28-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ExceptionTable.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ClassFile.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/NewArray.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/framedump.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/NoSuchClassError.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/BinExpr.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/AttributeInfo.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/Callback.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformAfter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/ClassMetaobject.java

- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/ControlFlow.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/StringL.java
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- /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/DoubleConst.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyFactory.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/ASTList.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/Descriptor.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Stmnt.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/SerialVersionUID.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/Modifier.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/Proxy.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformAccessArrayField.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/ASTree.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/StackMapTable.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/CannotReflectException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformReadField.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
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- /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Pair.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/AccessFlag.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/ConstructorCall.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepository.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformNewClass.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/TypeChecker.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/AnnotationsWriter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtNewConstructor.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/Bytecode.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/FieldDecl.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/AnnotationImpl.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/Cast.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/scopedpool/ScopedClassPool.java
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- /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/DefinePackageHelper.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/SourceFileAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/stackmap/TypedBlock.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/LocalVariableTypeAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/NestMembersAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/MethodFilter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/Analyzer.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/stackmap/Tracer.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/HotSwapAgent.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ProceedHandler.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtClassType.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/Opcode.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/JvstTypeChecker.java
- \*
- /javassist-3-28-0-ga-sources-jar/javassist/compiler/CodeGen.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/Type.java



- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Keyword.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/web/Viewer.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Member.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/JvstCodeGen.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/MethodCall.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformCall.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/Sample.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/CodeAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/LoaderClassPath.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/stackmap/BasicBlock.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/CallExpr.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
- \*
- /javassist-3-28-0-ga-sources-jar/javassist/CodeConverter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/InnerClassesAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/Expr.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/FramePrinter.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/SerializedProxy.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/SymbolTable.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/Dump.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ByteArray.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/URLClassPath.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/RemoteException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Visitor.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/LongVector.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/rmi/RemoteRef.java
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- /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformFieldAccess.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/LocalVariableAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/web/BadHttpRequest.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/FieldInfo.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Metalevel.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/NotFoundException.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/expr/NewExpr.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/Mnemonic.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformNew.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyObjectInputStream.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Loader.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/convert/TransformWriteField.java
- \*
- /javassist-3-28-0-ga-sources-jar/javassist/bytecode/ExceptionsAttribute.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/CtPrimitiveType.java
- \* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/analysis/SubroutineScanner.java

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```

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```

Found in path(s):

```

* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ByteMemberValue.java
*
/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/CharMemberValue.java
*
/javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-28-0-ga-sources-jar/javassist/bytecode/annotation/ArrayMemberValue.java

```

## 1.224 commons-discovery 0.5

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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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
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_1\_4.xsd
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- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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# 1.239 quartz 2.3.2

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## Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----

## Oracle

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

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

-----

## Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

-----

## OW2

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

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

-----

## Apache

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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<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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## 1.242 jcip-annotation 1.0-1

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```
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 */
```

Found in path(s):

- \* /jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java
- \* /jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/NotThreadSafe.java
- \* /jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
- \* /jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java

## 1.243 log4j-api 2.19.0

### 1.243.1 Available under license :

Apache Log4j API

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The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

The following artifacts are EPL and CDDL 1.0.

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

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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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<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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# 1.245 jettison 1.5.4

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# 1.246 system.io.compression.zipfile 4.8.3761

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# 1.249 tomcat-jasper-el 6.0.29

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## 1.250 gson 2.10.1

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Manifest-Version: 1.0

Created-By: 11.0.16.1 (Azul Systems, Inc.)

Build-Jdk-Spec: 11

Bnd-LastModified: 1673019830620

Bundle-ContactAddress: <https://github.com/google/gson>

Bundle-Description: Gson JSON library

Bundle-Developers: google;organization=Google;organizationUrl="https://www.google.com"

Bundle-DocURL: <https://github.com/google/gson/gson>

Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICENSE-2.0.txt"

Bundle-ManifestVersion: 2

Bundle-Name: Gson

Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8

Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:git:https://github.com/google/gson.git/gson",developer-connection="scm:git:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"

Bundle-SymbolicName: com.google.gson

Bundle-Vendor: Google Gson Project

Bundle-Version: 2.10.1

Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;version="2.10.1"

Import-Package: sun.misc;resolution:=optional,com.google.gson.annotations

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-6.4.0.202211291949

Multi-Release: true

Found in path(s):

\* /gson-2-10-1-jar/META-INF/MANIFEST.MF

# 1.251 jetty-schemas 3.1.2

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Eclipse

The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

-----  
Oracle

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

\* javax.servlet:javax.servlet-api

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

-----

## Oracle OpenJDK

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

- \* java.sun.security.ssl

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

-----

## Apache

The following artifacts are ASL2 licensed.

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

-----

## MortBay

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

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

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

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

-----  
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----  
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.  
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## 1.252 swagger-jaxrs 1.6.11

### 1.252.1 Available under license :

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Manifest-Version: 1.0  
Created-By: Maven JAR Plugin 3.3.0  
Build-Jdk-Spec: 11  
Automatic-Module-Name: io.swagger.jaxrs  
implementation-version: 1.6.11  
mode: development  
package: io.swagger  
url: <https://github.com/swagger-api/swagger-core/modules/swagger-jaxrs>  
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-Developers: fehguy;email="fehguy@gmail.com";name="Tony Tam"  
Bundle-DocURL: <https://github.com/swagger-api/swagger-core/modules/swagger-jaxrs>  
Bundle-License: "Apache License 2.0";link="http://www.apache.org/licenses/LICENSE-2.0.html"  
Bundle-ManifestVersion: 2  
Bundle-Name: swagger-jaxrs  
Bundle-SCM: url="https://github.com/swagger-api/swagger-core/modules/swagger-jaxrs",connection="scm:git:git@github.com:swagger-api/swagger-core.git/modules/swagger-jaxrs",developer-connection="scm:git:git@github.com:swagger-api/swagger-core.git/modules/swagger-jaxrs",tag=HEAD  
Bundle-SymbolicName:  
io.swagger.swagger-jaxrs  
Bundle-Version: 1.6.11  
Export-Package: io.swagger.jaxrs;version="1.6.11";uses:="io.swagger.annotations,io.swagger.jaxrs.config,io.swagger.jaxrs.ext,io.swagger.models,io.swagger.models.parameters,javax.ws.rs",io.swagger.jaxrs.config;version="1.6.11";uses:="io.swagger.config,io.swagger.jaxrs,io.swagger.models,javax.servlet,javax.servlet.http,javax.ws.rs.core,org.reflections",io.swagger.jaxrs.ext;version="1.6.11";uses:="com.fasterxml.jackson.databind,io.swagger.annotations,io.swagger.models,io.swagger.models.parameters",io.swagger.jaxrs.listing;version="1.6.11";uses:="io.swagger.annotations,io.swagger.models,javax.servlet,javax.ws.rs,javax.ws.rs.core,javax.ws.rs.ext",io.swagger.jaxrs.utils;version="1.6.11";uses:="io.swagger.models,io.swagger.models.parameters,javax.ws.rs"  
Import-Package: javax.ws.rs,javax.ws.rs.core,javax.ws.rs.ext,com.fasterxml.jackson.annotation;version="[2.14,3)",com.fasterxml.jackson.databind;version="[2.14,3)",com.fasterxml.jackson.databind.introspect;version="[2.14,3)",com.fasterxml.jackson.databind.type;version="[2.14,3)",com.google.common.base;version="[31.1,32)",com.google.common.collect;version="[31.1,32)",com.google.common.reflect;version="[31.1,32)",io.swagger.annotations;version="[1.6,2)",io.swagger.config;version="[1.6,2)",io.swagger.converter;version="[1.6,2)",io.swagger.core.filter;version="[1.6,2)",io.swagger.jaxrs;version="[1.6,2)",io.swagger.jaxrs.config;version="[1.6,2)",io.swagger.jaxrs.ext;version="[1.6,2)",io.swagger.jaxrs.utils;version="[1.6,2)",io.swagger.models;version="[1.6,2)",io.swagger.models.auth;version="[1.6,2)",io.swagger.models.parameters;version="[1.6,2)",io.swagger.models.properties;version="[1.6,2)",io.swagger.util;version="[1.6,2)",javax.servlet,javax.servlet.http,org.apache.commons.lang3;version="[3.12,4)",org.reflections;version="[0.10,1)",org.reflections.scanners;version="[0.10,1)",org.reflections.util;version="[0.10,1)",org.slf4j;version="[1.7,2)"  
Require-Capability: osgi.contract;resolution:=optional;osgi.contract=JavaJAXRS;filter:="(&(osgi.contract=JavaJAXRS)(version=1.1.1))",osgi.contract;resolution:=optional;osgi.contract=JavaServlet;filter:="(&(osgi.contract=JavaServlet)(version=2.5.0))",osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Found in path(s):

\* /swagger-jaxrs-1-6-11-2-jar/META-INF/MANIFEST.MF

# 1.253 system-componentmodel-composition-registration 4.8.3761

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# 1.255 jaxrpc-api 1.1

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```
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Found

in path(s):

\* /jaxrpc-api-jaxrpc-api-1-1-zip/jaxrpc-api-jaxrpc-api-1.1/pom.xml

## 1.256 commons-dbcp 2.13.0

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# 1.257 tomcat-i18n-fr 9.0.98

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- 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
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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- web-common\_3\_1.xsd
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Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
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may be obtained from:

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## 1.258 java-csv 2.0

### 1.258.1 Available under license :

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Version 2.1, February 1999

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## 1.260 jspapiglassfish 9.1.1.B60.25.p2

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\* /jsp-api-2-1-glassfish-9-1-1-b60-25-p2-jar/javax/servlet/jsp/resources/web-jsptaglibrary\_2\_0.xsd

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: 1.5.0\_19 (Sun Microsystems Inc.)

Built-By: janb

Build-Jdk: 1.5.0\_19

Bundle-License: <https://glassfish.dev.java.net/public/CDDLv1.0.html>

Import-Package: javax.servlet,javax.servlet.http,javax.xml.parsers,org.xml.sax,org.xml.sax.helpers

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Specification-Version: 2.1

Bnd-LastModified: 1251359613851

Export-Package: javax.el;version="2.1",javax.servlet.jsp;uses="javax.servlet.http,javax.servlet,javax.el,javax.servlet.jsp.el,javax.servlet.jsp.tagext";version="2.1",javax.servlet.jsp.el;uses="javax.servlet.jsp,javax.servlet.http,javax.servlet,javax.el";version="2.1",javax.servlet.jsp.jstl.core;uses="javax.servlet.jsp.tagext,javax.servlet.jsp,javax.servlet.http,javax.servlet,javax.el";version="2.1",javax.servlet.jsp.jstl.fmt;uses="javax.servlet.http,javax.servlet.jsp.jstl.core,javax.servlet,javax.servlet.jsp";version="2.1",javax.servlet.jsp.jstl.sql;version="2.1",javax.servlet.jsp.jstl.tlv;uses="org.xml.sax,org.xml.sax.helpers,javax.servlet.jsp.tagext,javax.xml.parsers";version="2.1",javax.servlet.jsp.resources;version="2.1",javax.servlet.jsp.tagext;uses="javax.servlet.jsp";version="2.1"

Bundle-Version: 2.1

Ignore-Package: javax.servlet.jsp.jstl.tlv,javax.servlet.jsp.jstl.core,javax.servlet.jsp.jstl.fmt,javax.servlet.jsp.tagext,javax.servlet.jsp.el,javax.servlet.jsp.resources,javax.servlet.jsp.jstl.sql,javax.servlet.jsp,javax.el



Bundle-Name: Glassfish :: Jasper API JSP 2.1  
Bundle-Description: JSP2.1 API  
Bundle-DocURL: http://www.mortbay.com  
Originally-Created-By: 1.5.0\_19 (Sun Microsystems Inc.)  
Bundle-Vendor: Mort Bay Consulting  
Bundle-ManifestVersion: 2  
Bundle-SymbolicName: org.mortbay.jetty.jsp-api-2.1-glassfish  
Tool: Bnd-0.0.311  
Implementation-Vendor: JCP

Found in path(s):

\* /jsp-api-2-1-glassfish-9-1-1-b60-25-p2-jar/META-INF/MANIFEST.MF

## 1.261 jpcap 1.16

## 1.262 system.runtime.caching 4.8.3761

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## 1.264 jax-ws 2.2.7

## 1.265 jackson-jaxrs-base 2.12.7

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* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationTypeMappings.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/AbstractEncoder.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/MimeType.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/TypeUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/Resource.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/SimpleAliasRegistry.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/TypeMappedAnnotation.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/env/AbstractEnvironment.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
```

```

* /spring-core-5-3-39-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/VfsResource.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/RepeatableContainers.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/SocketUtils.java
*
/spring-core-5-3-39-sources-
jar/org/springframework/core/annotation/SynthesizedMergedAnnotationInvocationHandler.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/Property.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/KotlinReflectionParameterNameDiscoverer.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/NestedIOException.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AbstractMergedAnnotation.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/unit/DataSize.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/CoroutinesUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AliasFor.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/io/AbstractFileResolvingResource.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/DigestUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/AbstractResource.java
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* /spring-core-5-3-39-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/NestedExceptionUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/CollectionUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/UrlResource.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/MergedAnnotations.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/io/DefaultResourceLoader.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/SerializationUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationTypeMapping.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/FastByteArrayOutputStream.java
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- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/AbstractDataBufferDecoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/PriorityOrdered.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/Ordered.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/AnnotationMetadata.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/unit/DataUnit.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/TransformerUtils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/ReactiveAdapter.java
- \* /spring-core-5-3-39-sources-
- jar/org/springframework/core/type/classreading/RecursiveAnnotationArrayVisitor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/Base64Utils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/DataBufferDecoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/SpringVersion.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DataBufferWrapper.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/MultiValueMap.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/util/SimpleRouteMatcher.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/classreading/ClassMetadataReadingVisitor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/ResourceEncoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
- \* /spring-core-5-3-39-sources-
- jar/org/springframework/core/type/classreading/RecursiveAnnotationAttributesVisitor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/PathMatcher.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/RouteMatcher.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/PropertyResolverExtensions.kt
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/DecoratingProxy.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/lang/NonNullFields.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/lang/NonNull.java
- \* /spring-core-5-3-39-sources-

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jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/ByteBufferDecoder.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-5-3-39-sources-jar/org/springframework/lang/Nullable.java
* /spring-core-5-3-39-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
*
/spring-core-5-3-39-sources-
jar/org/springframework/core/type/classreading/AbstractRecursiveAnnotationVisitor.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/StaxUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
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* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/TypeDescriptor.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ObjectToObjectConverter.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/BridgeMethodResolver.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/ResolvableType.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/SerializableTypeWrapper.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/metrics/DefaultApplicationStartup.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/MethodIntrospector.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/ResourcePropertiesPersister.java

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* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/env/PropertiesPropertySource.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/ClassUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AttributeMethods.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/MultiValueMapAdapter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DataBufferUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
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Found in path(s):

- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/ClassPathResource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/backoff/ExponentialBackOff.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/Profiles.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/ReflectionUtils.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/core/io/FileSystemResource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/log/LogMessage.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/ConversionFailedException.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/GenericConversionService.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/PathResource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/ObjectUtils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/CollectionFactory.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/MethodInvoker.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/CommandLinePropertySource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/Environment.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/core/MethodParameter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/ConcurrencyThrottleSupport.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/ConcurrentReferenceHashMap.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/log/LogFormatUtils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/OrderUtils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/ReactiveAdapterRegistry.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/ProfilesParser.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
- \* /spring-core-5-3-39-sources-
- jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/InstanceFilter.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/core/ParameterizedTypeReference.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/FileSystemUtils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/serializer/DefaultDeserializer.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/comparator/NullSafeComparator.java

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- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/ConversionService.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/ResolvableTypeProvider.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/EncodedResource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/DecoratingClassLoader.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/style/ToStringStyler.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/CodecException.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StreamConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/MethodClassKey.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/Order.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/AbstractXMLReader.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/EnvironmentCapable.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/StringValueResolver.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/ResourceEditor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/WritableResource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/lang/NonNullApi.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/FutureAdapter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/CompositePropertySource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/EncodingException.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/ClassMetadata.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/InvalidMimeTypeException.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/DecodingException.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToArrayConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/DefaultConversionService.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
- \*

/spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/converter/GenericConverter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/StaxResult.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/util/NumberUtils.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/core/style/DefaultToStringStyler.java  
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\* /spring-core-5-3-39-sources-jar/org/springframework/core/AttributeAccessor.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/util/PropertyPlaceholderHelper.java

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* /spring-core-5-3-39-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/StaxEventXMLReader.java
*
/spring-core-5-3-39-sources-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/ConcurrentLruCache.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-5-3-39-sources-
jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/ResourceLoader.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/StandardClassMetadata.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/StopWatch.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-5-3-39-sources-
jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/PatternMatchUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/NativeDetector.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/Constants.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/InputStreamSource.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/SpringAsmInfo.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/SpringProperties.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/annotation/AnnotationsProcessor.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderApplicationStartup.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadata.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/Encoder.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/log/LogDelegateFactory.java
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org.springframework.core.ReactiveAdapterRegistry\$SpringCoreBlockHoundIntegration

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\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/proxy/MethodProxy.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/core/AbstractClassGenerator.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BeanCopier.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/ImmutableBean.java  
\*

/spring-core-5-3-39-sources-jar/org/springframework/cglib/core/ReflectUtils.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BeanMap.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/core/AsmApi.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/core/KeyFactory.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java

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\* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/ConfigurableObjectInputStream.java  
 \*  
 \* /spring-core-5-3-39-sources-jar/org/springframework/lang/UsesSunMisc.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/CharacterToNumberFactory.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/converter/ConverterRegistry.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/task/TaskExecutor.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/FailureCallback.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/util/ErrorHandler.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/CollectionToStringConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/filter/TypeFilter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/util/backoff/BackOff.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/ProtocolResolver.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java  
 \*  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/util/backoff/BackOffExecution.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/EnumToStringConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/CommandLineArgs.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/objenesis/SpringObjenesis.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/filter/AssignableTypeFilter.java

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\* /spring-core-5-3-39-sources-jar/org/springframework/asm/Handle.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/Edge.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/MethodWriter.java  
\*  
/spring-core-5-3-39-sources-jar/org/springframework/asm/Frame.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/AnnotationVisitor.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/Label.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/ModuleWriter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/CurrentFrame.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/RecordComponentWriter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/MethodVisitor.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/SymbolTable.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/Context.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/Type.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/ClassReader.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/ClassVisitor.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/AnnotationWriter.java  
\*  
/spring-core-5-3-39-sources-jar/org/springframework/asm/Attribute.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/TypeReference.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/ByteVector.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/Constants.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/ModuleVisitor.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/asm/ConstantDynamic.java

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* /spring-core-5-3-39-sources-jar/org/springframework/asm/FieldVisitor.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/Opcodes.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/ClassWriter.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/ClassTooLargeException.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/TypePath.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/Symbol.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/Handler.java
*

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/spring-core-5-3-39-sources-jar/org/springframework/asm/RecordComponentVisitor.java
* /spring-core-5-3-39-sources-jar/org/springframework/asm/FieldWriter.java
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* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/AttributeAccessorSupport.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/MimeTypeUtils.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToNumberConverterFactory.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/StreamUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/SimpleIdGenerator.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/FileCopyUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/GenericTypeResolver.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/KotlinDetector.java
*
/spring-core-5-3-39-sources-jar/org/springframework/util/IdGenerator.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java

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- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/Hints.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/task/TaskDecorator.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/PropertyResolver.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/PropertySourceFactory.java
- \* /spring-core-5-3-39-sources-
- jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/MutablePropertySources.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/core/Conventions.java
- \* /spring-core-5-3-39-sources-
- jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/SystemPropertyUtils.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/metrics/StartupStep.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/metrics/ApplicationStartup.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/log/LogAccessor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupEvent.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/FileUrlResource.java
- \*
- /spring-core-5-3-39-sources-jar/org/springframework/util/PropertiesPersister.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/comparator/InstanceComparator.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/MergedAnnotationCollectors.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/OrderComparator.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/CustomizableThreadCreator.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/MapPropertySource.java
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- /spring-core-5-3-39-sources-jar/org/springframework/core/env/PropertySource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/SortedProperties.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/serializer/Deserializer.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/Assert.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/CommonsLogWriter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/LinkedMultiValueMap.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/StringDecoder.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/AliasRegistry.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/ResourceRegionEncoder.java
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/spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/StringToUUIDConverter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java  
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\* /spring-core-5-3-39-sources-jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java  
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/spring-core-5-3-39-sources-jar/org/springframework/util/xml/ListBasedXMLEventReader.java  
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\* /spring-core-5-3-39-sources-jar/org/springframework/util/comparator/Comparators.java  
\*  
/spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/ListenableFutureCallback.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/util/ResourceUtils.java  
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\* /spring-core-5-3-39-sources-jar/org/springframework/util/comparator/InvertibleComparator.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/lang/UsesJava7.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/core/style/ToStringCreator.java  
\* /spring-core-5-3-39-sources-jar/org/springframework/lang/UsesSunHttpServer.java

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* /spring-core-5-3-39-sources-jar/org/springframework/lang/UsesJava8.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/NestedCheckedException.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/AutoPopulatingList.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/function/SingletonSupplier.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/DomContentHandler.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
*
/spring-core-5-3-39-sources-jar/org/springframework/util/xml/DomUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/function/SupplierUtils.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/DescriptiveResource.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/comparator/ComparableComparator.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/XMLEventStreamReader.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
*
/spring-core-5-3-39-sources-jar/org/springframework/core/OverridingClassLoader.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/comparator/CompoundComparator.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
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 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java  
 \*  
 \* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/StaxStreamHandler.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java  
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 \* /spring-core-5-3-39-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java  
 \* /spring-core-5-3-39-sources-jar/org/springframework/util/ExceptionTypeFilter.java  
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 \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java



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* /spring-core-5-3-39-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
*
* /spring-core-5-3-39-sources-jar/org/springframework/core/task/SyncTaskExecutor.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /spring-core-5-3-39-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
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- \* /spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BulkBeanException.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/cglib/beans/BeanGenerator.java

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- \* /spring-core-5-3-39-sources-jar/org/springframework/util/JdkIdGenerator.java
- \*
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/convert/support/FallbackObjectToStringConverter.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
- \* /spring-core-5-3-39-sources-jar/org/springframework/core/annotation/SynthesizedAnnotation.java

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- javaee\_5.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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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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- web-fragment\_4\_0.xsd

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org.apache.tomcat.util.json.JSONParser.jj is  
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- 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
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd

- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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## 1.269 mime-pull 1.9.3

## 1.270 ini4j 0.3.2

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```

* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/Recycler.java
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* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/PromiseTask.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/FutureListener.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/ResourceLeak.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java

```

```

* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/PlatformDependent0.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/ReferenceCounted.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/Promise.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java
*
/netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/AbstractReferenceCounted.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/PendingWrite.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/Future.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/Version.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java
*
/netty-common-4-1-60-final-sources-jar/io/netty/util/ResourceLeakException.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/package-info.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/ResourceLeakDetector.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/EmptyArrays.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java
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* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
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*
/netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/package-info.java
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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/svm/package-info.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ThreadExecutorMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java  
\*  
/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ReferenceCountUpdater.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ObjectPool.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/Hidden.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java  
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\* /netty-common-4-1-60-final-sources-  
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\* /netty-common-4-1-60-final-sources-  
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\* /netty-common-4-1-60-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java  
\* /netty-common-4-1-60-final-sources-

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* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCArrayQueue.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
*
/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
* /netty-common-4-1-60-final-sources-
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* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java
* /netty-common-4-1-60-final-sources-

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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
*
/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCUnboundedArrayQueue.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java
*
/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
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* /netty-common-4-1-60-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /netty-common-4-1-60-final-sources-
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* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
* /netty-common-4-1-60-final-sources-
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/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
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* /netty-common-4-1-60-final-sources-
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* /netty-common-4-1-60-final-sources-
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* /netty-common-4-1-60-final-sources-
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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java  
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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java

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/netty-common-4-1-60-final-sources-jar/io/netty/util/DomainMappingBuilder.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/AsyncMapping.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/HashingStrategy.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/LongCounter.java  
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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java  
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/netty-common-4-1-60-final-sources-jar/io/netty/util/ThreadDeathWatcher.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/DomainNameMapping.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/ResourceLeakHint.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/AsciiString.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java  
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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/NetUtilInitializations.java

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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/IntObjectMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/LongCollections.java  
\*  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/ShortObjectMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/ByteCollections.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ObjectUtil.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/CharObjectHashMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/LongObjectMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/ShortCollections.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/CharObjectMap.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/CharCollections.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/IntCollections.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/collection/ByteObjectMap.java  
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/netty-common-4-1-60-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java

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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/CleanerJava9.java

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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/HashedWheelTimer.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java

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/netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/AbstractConstant.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/Attribute.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/NetUtil.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/CharsetUtil.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/Timeout.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/PlatformDependent.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
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/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/EventExecutor.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/Constant.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/StringUtil.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/TimerTask.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/Signal.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/package-info.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
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/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/AttributeKey.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/FailedFuture.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/AttributeMap.java
* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ObjectCleaner.java  
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\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/LongAdderCounter.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/PriorityQueue.java  
\* /netty-common-4-1-60-final-sources-jar/io/netty/util/SuppressForbidden.java  
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 \* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java  
 \* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java  
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io.netty.util.internal.Hidden\$NettyBlockHoundIntegration

Found in path(s):

\* /netty-common-4-1-60-final-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration  
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Found in path(s):

- \* /netty-common-4-1-60-final-sources-jar/io/netty/util/ByteProcessorUtils.java
- \* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ResourcesUtil.java

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Found in path(s):

- \* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
- \* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
- \* /netty-common-4-1-60-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
- \* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java

\*

/netty-common-4-1-60-final-sources-jar/io/netty/util/internal/UnstableApi.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/ResourceLeakTracker.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/SocketUtils.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java

\*

/netty-common-4-1-60-final-sources-jar/io/netty/util/IntSupplier.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/BooleanSupplier.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java

\* /netty-common-4-1-60-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java

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Found in path(s):
 * /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/FormattingTuple.java
 *
 * /netty-common-4-1-60-final-sources-jar/io/netty/util/internal/logging/MessageFormatter.java
```

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<artifactId>jctools-core</artifactId>
```

```
<groupId>org.jctools</groupId>
```

```
<version>3.1.0</version>
```

```
<name>Java Concurrency Tools Core Library</name>
```

```
<description>Java Concurrency Tools Core Library</description>
```

```
<packaging>bundle</packaging>
```

```
<dependencies>
```

```
<dependency>
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```
<groupId>org.hamcrest</groupId>
```

```
<artifactId>hamcrest-all</artifactId>
```

```
<version>${hamcrest.version}</version>
```

```
<scope>test</scope>
```

```
</dependency>
```

```
<dependency>
```

```
<groupId>junit</groupId>
```

```
<artifactId>junit</artifactId>
```

```
<version>${junit.version}</version>
```

```
<scope>test</scope>
```

```
</dependency>
```

```

<dependency>
 <groupId>com.google.guava</groupId>
 <artifactId>guava-testlib</artifactId>
 <version>${guava-testlib.version}</version>
 <scope>test</scope>
</dependency>
</dependencies>
<build>
 <plugins>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-surefire-plugin</artifactId>
 <version>3.0.0-M3</version>
 <configuration>
 <includes>
 <include>*</include>
 </includes>
 </configuration>
 </plugin>
 <plugin>
 <groupId>org.apache.felix</groupId>
 <artifactId>maven-bundle-plugin</artifactId>
 <version>4.2.1</version>
 <extensions>true</extensions>
 <configuration>
 <instructions>
 <Import-Package>sun.misc;resolution:=optional</Import-Package>
 </instructions>
 </configuration>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-source-plugin</artifactId>
 <version>3.2.0</version>
 <executions>
 <execution>
 <id>attach-sources</id>
 <phase>verify</phase>
 <goals>
 <goal>jar-no-fork</goal>
 </goals>
 </execution>
 </executions>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-javadoc-plugin</artifactId>
 <version>3.1.1</version>

```

```

<configuration>
 <additionalOptions>
 <additionalOption>-Xdoclint:none</additionalOption>
 </additionalOptions>
 <source>8</source>
</configuration>
<executions>
 <execution>
 <id>attach-javadocs</id>
 <goals>
 <goal>jar</goal>
 </goals>
 </execution>
</executions>
</plugin>
</plugins>
</build>

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

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

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

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

<developers>
 <developer>
 <url>https://github.com/nitsanw</url>
 </developer>

```



```

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

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

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

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

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

```

Found

in path(s):

\* /netty-common-4-1-60-final-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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\* /netty-common-4-1-60-final-sources-jar/META-INF/native-image/io.netty/common/native-image.properties

# 1.272 jersey-spring 1.19.4

## 1.273 saaj-api 1.3.4

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# 1.274 activation-api 1.2.1

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# 1.275 system.net.networkinformation 4.8.3761

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# 1.276 jersey 1.18.1

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# 1.277 jetty 6.1.25

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```

```
/**
```

```
 * By default, we're confidential, given we speak SSL. But, if we've been told about an
```

```
 * confidential port, and said port is not our port, then we're not. This allows separation of
```

```
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
```

```
 * configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
```

```
 * requiring client certs providing mere INTEGRAL constraints.
```

```
 */
```

```
/**
```

```
 * By default, we're integral, given we speak SSL. But, if we've been told about an integral
```

```
 * port, and said port is not our port, then we're not. This allows separation
```

of listeners

- \* providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
- \* require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
- \* client certs providing mere INTEGRAL constraints.
- \*/

Found in path(s):

\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/SslSocketConnector.java

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/**
 * @return The result of calling {@link #getConnector}.
 * {@link Connector#isConfidential(Request) isConfidential}
 * (request), or false if there is no connector.
 */
```

Found in path(s):

\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpConnection.java

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\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/HandlerList.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/RewriteHandler.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpException.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Request.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/nio/AbstractNIOConnector.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Response.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/AbstractGenerator.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/FilterMapping.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/EofException.java  
\*  
/jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpOnlyCookie.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/io/nio/SelectorManager.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/AbstractHandler.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Generator.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/AbstractHandlerContainer.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/LocalConnector.java

- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/webapp/WebAppContext.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpContent.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/SimpleBuffers.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/Context.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Main.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/MovedContextHandler.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/nio/NIOConnector.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/ServletMapping.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpURI.java
- \*
- /jetty-6-1-25-sources-2-jar/org/mortbay/resource/ResourceCollection.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/webapp/TagLibConfiguration.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/ContextHandler.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/BufferDataCache.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/webapp/JettyWebXmlConfiguration.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/RetryRequest.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/SessionIdManager.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Handler.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/resource/ResourceFactory.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/deployer/ContextDeployer.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/ConstraintMapping.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/AbstractBuffers.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/Buffers.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/webapp/Configuration.java
- \*
- /jetty-6-1-25-sources-2-jar/org/mortbay/io/nio/ChannelEndPoint.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/deployer/ConfigurationManager.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Parser.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/HandlerWrapper.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpTokens.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/AbstractSessionIdManager.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/NCSARequestLog.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/deployer/FileConfigurationManager.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/bio/StringEndPoint.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/bio/SocketEndPoint.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/RequestLog.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/HandlerCollection.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/bio/StreamEndPoint.java
- \*
- /jetty-6-1-25-sources-2-jar/org/mortbay/io/nio/SelectChannelEndPoint.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/ByteArrayEndPoint.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpGenerator.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/servlet/jetty/IncludableGzipFilter.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/RequestLogHandler.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/EndPoint.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HandlerContainer.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/SessionHandler.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/DebugHandler.java

\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/ContextHandlerCollection.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/HashSessionIdManager.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/io/View.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/deployer/WebAppDeployer.java  
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\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpSchemes.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/ClientCertAuthenticator.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/resource/FileResource.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/FormAuthenticator.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/StatisticsHandler.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/SecurityHandler.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/BasicAuthenticator.java  
\*  
/jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/PathMap.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/Invoker.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/ResourceCache.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/xml/XmlConfiguration.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/ServletHolder.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/io/BufferCache.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/DefaultServlet.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/bio/SocketConnector.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpVersions.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/SessionManager.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/io/WriterOutputStream.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/ResourceHandler.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/io/Portable.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/InclusiveByteRange.java  
\*  
/jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/UserRealm.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/ServletSSL.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/AbstractStatisticsHandler.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/Authenticator.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/AbstractSessionManager.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/resource/JarFileResource.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/resource/JarResource.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/nio/SelectChannelConnector.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/io/Connection.java  
\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpHeaderValues.java

```

* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/nio/BlockingChannelConnector.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/webapp/WebInfConfiguration.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/ErrorHandler.java
*
/jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/JDBCUserRealm.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/ErrorHandler.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/webapp/WebXmlConfiguration.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/Dispatcher.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/io/BufferUtil.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/io/ByteArrayBuffer.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/Password.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/HashUserRealm.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/MimeTypes.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Server.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/SSORealm.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/FilterHolder.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/resource/URLResource.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/io/nio/DirectNIOBuffer.java
*
/jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/B64Code.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/Holder.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/xml/XmlParser.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/webapp/WebAppClassLoader.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/PKCS12Import.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/io/nio/IndirectNIOBuffer.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpHeaders.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpFields.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/handler/DefaultHandler.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/servlet/ServletHandler.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/resource/Resource.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpMethods.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/resource/BadResource.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/io/AbstractBuffer.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/HashSSORealm.java
*
/jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/Credential.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/io/Buffer.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpStatus.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/HttpParser.java
* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/DigestAuthenticator.java
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```

```

/*
* @(#)UnixCrypt.java 0.9 96/11/25
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/\*\*  
 \* @return The port to use when redirecting a request if a data constraint of confidential is  
 \* required. See {@link org.mortbay.jetty.security.Constraint#getDataConstraint()}  
 \*/  
/\*\*  
 \* @return The schema to use when redirecting a request if a data constraint of confidential is  
 \* required. See {@link org.mortbay.jetty.security.Constraint#getDataConstraint()}  
 \*/  
/\*\*  
 \* @param request A request  
 \* @return true if the request is confidential. This normally means the https schema has been used.  
 \*/

Found in path(s):

- \* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/Connector.java

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Found in path(s):

- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/UncheckedPrintWriter.java
- \* /jetty-6-1-25-sources-2-jar/org/mortbay/io/RuntimeIOException.java

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/*
 * @see org.mortbay.jetty.Connector#getConfidentialPort()
 */
/*
 * @see org.mortbay.jetty.Connector#getConfidentialScheme()
 */
/*
 * @see org.mortbay.jetty.Connector#isConfidential(org.mortbay.jetty.Request)
 */
/**
 * @param confidentialPort The confidentialPort to set.
 */
/**
 * @param confidentialScheme The confidentialScheme to set.
 */
```

Found in path(s):

\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/AbstractConnector.java

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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL & 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL & 2=DC_CONFIDENTIAL
 */
```

Found in path(s):

\* /jetty-6-1-25-sources-2-jar/org/mortbay/jetty/security/Constraint.java

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/javax-persistence-api-2-2-sources-5-jar/javax/persistence/MapKeyClass.java

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\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/OneToOne.java

\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/CacheRetrieveMode.java

\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/MapKeyEnumerated.java

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\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/OrderBy.java

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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/AssociationOverrides.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PreUpdate.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/EntityExistsException.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/EntityListeners.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/GeneratedValue.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PersistenceUnits.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/CollectionJoin.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/EntityType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/SingularAttribute.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Cache.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/IdClass.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NamedNativeQueries.java
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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/ListAttribute.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/Metamodel.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/MapKeyColumn.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/JoinTable.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/OneToMany.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/SetAttribute.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/package-info.java
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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/OptimisticLockException.java
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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/MapJoin.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/DiscriminatorType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/MapAttribute.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/spi/ProviderUtil.java
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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/MappedSuperclassType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/Attribute.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Cacheable.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/FetchParent.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/SecondaryTables.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/TransactionRequiredException.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Persistence.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/Order.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/ExcludeSuperclassListeners.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/Subquery.java

- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NonUniqueResultException.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/ParameterExpression.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/package-info.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/PluralAttribute.java
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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PersistenceProperty.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/LockTimeoutException.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/CollectionAttribute.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PersistenceUnitUtil.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/FlushModeType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/InheritanceType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/BasicType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/ListJoin.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PersistenceContextType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PersistenceUtil.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PrimaryKeyJoinColumns.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Temporal.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PostRemove.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/SqlResultSetMappings.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/CollectionTable.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/Path.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/SetJoin.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/Selection.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/ValidationMode.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/EntityManagerFactory.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/EmbeddableType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/ExcludeDefaultListeners.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/EnumType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/QueryHint.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/ManagedType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Id.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/Expression.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/EntityManager.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/ManyToMany.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/TemporalType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PostLoad.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Tuple.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/package-info.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/spi/package-info.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/GenerationType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/IdentifiableType.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/OrderColumn.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/DiscriminatorColumn.java
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/javax-persistence-api-2-2-sources-5-jar/javax/persistence/ManyToOne.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/spi/PersistenceProviderResolver.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/AbstractQuery.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/CriteriaBuilder.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/Type.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/spi/PersistenceUnitTransactionType.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PersistenceException.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Basic.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NamedQueries.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Table.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/UniqueConstraint.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PessimisticLockScope.java
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/javax-persistence-api-2-2-sources-5-jar/javax/persistence/Version.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Access.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/FetchType.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/MapKeyTemporal.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/TupleElement.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/metamodel/StaticMetamodel.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/CommonAbstractCriteria.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PostPersist.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PreRemove.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/Fetch.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/MapKeyJoinColumns.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Column.java
*
/javax-persistence-api-2-2-sources-5-jar/javax/persistence/Lob.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/CacheStoreMode.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/ElementCollection.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PrePersist.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/MappedSuperclass.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/spi/LoadState.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/AccessType.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Embeddable.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/JoinColumns.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NoResultException.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/RollbackException.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Embedded.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/CompoundSelection.java
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/javax-persistence-api-2-2-sources-5-jar/javax/persistence/EmbeddedId.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/From.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Entity.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/ConstructorResult.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/spi/ClassTransformer.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/Join.java
* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/CascadeType.java

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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/ForeignKey.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/StoredProcedureQuery.java
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- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Subgraph.java
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- /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NamedStoredProcedureQueries.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Index.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/AttributeNode.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NamedSubgraph.java
- \* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/StoredProcedureParameter.java

\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/criteria/CriteriaUpdate.java  
\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/NamedAttributeNode.java  
\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/Converts.java  
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/javax-persistence-api-2-2-sources-5-jar/javax/persistence/AttributeOverride.java  
\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/SqlResultSetMapping.java  
\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/PrimaryKeyJoinColumn.java  
\* /javax-persistence-api-2-2-sources-5-jar/javax/persistence/SecondaryTable.java  
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\* Linda DeMichiel - Java Persistence 2.1  
\* Linda DeMichiel - Java Persistence 2.0

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substring(II)Ljava/lang/String;  
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```
java/util/Set removeAll(Ljava/util/Collection;)Z'(Ljava/lang/String;Ljava/lang/String;)V nextTokenadd
hasMoreTokens()Zappend,(Ljava/lang/String;)Ljava/lang/StringBuffer;;(Ljava/lang/Object;)Ljava/lang/StringBuffer
;&org/apache/tools/ant/types/Permissions!&'(*)+),-
./0/*1236780A *+1
2 36 9);;0/*1236<80A *+1
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# 1.281 shindig-extras 2.0.2

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\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java

\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

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- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
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- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/flow/package-info.java
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- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
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- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
- \*
- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java  
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\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java  
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```

Found in path(s):

\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
\*

/netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java  
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\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/traffic/package-info.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java  
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\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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```

 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
 *
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
 * /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
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- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/logging/LogLevel.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/package-info.java
- \*
- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/package-info.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslHandler.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/IdleState.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/logging/package-info.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
- \*
- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/package-info.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/stream/package-info.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java

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- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/flow/FlowControlHandler.java

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```
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
*
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/TCPpacket.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/package-info.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/pcap/IPPacket.java
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```
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
```

- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
- \*
- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/package-info.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
- \*
- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslContext.java
- \*
- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslProvider.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslUtils.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/PemReader.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
- \*
- /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SniHandler.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
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- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
- \* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java

```
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
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/netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
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* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
*
/netty-handler-4-1-60-final-sources-jar/io/netty/handler/address/package-info.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
\*  
/netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ClientAuth.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
\* /netty-handler-4-1-60-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java

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## 1.285 async-http-client-netty-utils 2.12.3

### 1.285.1 Available under license :

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

Manifest-Version: 1.0

Bnd-LastModified: 1616858744764

Build-Jdk: 1.8.0\_265

Built-By: tom

Bundle-Description: The Async Http Client (AHC) library's purpose is to allow Java applications to easily execute HTTP requests and asynchronously process the response.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Asynchronous Http Client Netty Utils

Bundle-SymbolicName: org.asynchttpclient.async-http-client-netty-utils

Bundle-Vendor: The AsyncHttpClient Project

Bundle-Version: 2.12.3

Created-By: Apache Maven Bundle Plugin

Export-Package: org.asynchttpclient.netty.util;uses:="io.netty.buffer";version="2.12.3"

Import-Package: io.netty.buffer;version="[4.1,5)",io.netty.util;version="[4.1,5)",javax.activation;version="[1.1,2)",io.netty.channel.kqueue;resolution:=optional,io.netty.channel.epoll;resolution:=optional

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool:

Bnd-3.0.0.201509101326

Found in path(s):

\* /async-http-client-netty-utils-2-12-3-jar/META-INF/MANIFEST.MF

## 1.286 jaxb-core 2.3.1

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## 1.287 javassist 3.20.0-GA

### 1.287.1 Available under license :

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```
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 * WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
 * for the specific language governing rights and limitations under the
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 */
```

Found in path(s):

- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/Handler.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformFieldAccess.java

```

*
/javassist-3-20-0-ga-sources-5-jar/javassist/CtNewConstructor.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/AssignExpr.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/ControlFlow.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/web/Webserver.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/Proxy.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/StackMap.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/runtime/DotClass.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformReadField.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/ClassPool.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/CannotCreateException.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/util/HotSwapper.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/LoaderClassPath.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/InnerClassesAttribute.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/TypeData.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/NoFieldException.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/CodeConverter.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/AccessorMaker.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/AppletServer.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/LocalVariableAttribute.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/CannotCompileException.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformWriteField.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/CastExpr.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Expr.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ConstantAttribute.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Symbol.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/Loader.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Stmnt.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/Expr.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/ClassClassPath.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/SoftValueHashMap.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/web/Viewer.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/TypedBlock.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/JvstTypeChecker.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/AnnotationDefaultAttribute.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/CondExpr.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ByteArray.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/CtField.java

```

- \* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/MethodCall.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/runtime/Cflow.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtClass.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Reflection.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/framedump.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/SignatureAttribute.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/IntConst.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/EnclosingMethodAttribute.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/LocalVariableTypeAttribute.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/Mnemonic.java
- \*
- /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Compiler.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/ObjectImporter.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/IntQueue.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/InstanceOfExpr.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/Sample.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtNewWrappedMethod.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Subroutine.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ClassFile.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/Instanceof.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtClassType.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Analyzer.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/TypeChecker.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/AttributeInfo.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtNewClass.java
- \*
- /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/NewExpr.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/DoubleConst.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/Descriptor.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/ExprEditor.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ProceedHandler.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Pair.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/web/BadHttpRequest.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/Modifier.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/DuplicateMemberException.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtMethod.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/Callback.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/NewExpr.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/KeywordTable.java
- \*
- /javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/NoSuchClassError.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/CannotReflectException.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ExceptionsAttribute.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtConstructor.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/runtime/Desc.java

- \* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/RuntimeSupport.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/Lex.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationsWriter.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectInputStream.java
- \*
- /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ExceptionTable.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/BadBytecode.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiType.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/AccessFlag.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/MemberCodeGen.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Executor.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/TokenId.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/JvstCodeGen.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtNewWrappedConstructor.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/SubroutineScanner.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformBefore.java
- \*
- /javassist-3-20-0-ga-sources-5-jar/javassist/convert/Transformer.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/FieldDecl.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/FieldInfo.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/CodeIterator.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyObject.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/MethodInfo.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Sample.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Metaobject.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtMember.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/SerialVersionUID.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/ConstructorCall.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/Opcodes.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/ObjectNotFoundException.java
- \*
- /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformNew.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/StringL.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Util.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/ByteArrayClassPath.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/FramePrinter.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/ClassPoolTail.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Loader.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactory.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/ClassMetaobject.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Member.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/SourceFileAttribute.java
- \* /javassist-3-20-0-ga-sources-5-jar/javassist/CtBehavior.java

```

*
/javassist-3-20-0-ga-sources-5-jar/javassist/ClassMap.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/NewArray.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/StubGenerator.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/FieldAccess.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/AnnotationsAttribute.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/FactoryHelper.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/CtPrimitiveType.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/BasicBlock.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/DeprecatedAttribute.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/SymbolTable.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/LineNumberAttribute.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/Dump.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformNewClass.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformAfter.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationImpl.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ConstPool.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/rmi/RemoteRef.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/NotFoundException.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/CompileError.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPool.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/BinExpr.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/runtime/Inner.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/ClassPath.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/CannotInvokeException.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ClassFilePrinter.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/CodeAttribute.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/ByteStream.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/Tracer.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/MemberResolver.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/LongVector.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/SyntaxError.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/CtNewNestedClass.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/CtNewMethod.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/URLClassPath.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/Parser.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/Translator.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/ASTree.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/CallExpr.java

```



```

* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/MethodHandler.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/Bytecode.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/tools/reflect/Metalevel.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/CtArray.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/Proxy.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/stackmap/TypeTag.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/Javac.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/MethodFilter.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/analysis/Frame.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/util/proxy/SerializedProxy.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/CodeAnalyzer.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/convert/TransformCall.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/expr/Cast.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/compiler/ast/Variable.java
No license file was found, but licenses were detected in source scan.

```

```

/*
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*/

```

Found in path(s):

```

* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
*
/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java

```

\* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java  
\* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java  
\*  
/javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java  
\* /javassist-3-20-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java

## 1.288 json-java 2.2.3

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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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
- web-common\_4\_0.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd

- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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```
* /ognl-3-3-5-sources-jar/ognl/ASTCtor.java
* /ognl-3-3-5-sources-jar/ognl/ArrayPropertyAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTList.java
* /ognl-3-3-5-sources-jar/ognl/SimpleNode.java
* /ognl-3-3-5-sources-jar/ognl/ASTMap.java
* /ognl-3-3-5-sources-jar/ognl/ASTThisVarRef.java
*
/ognl-3-3-5-sources-jar/ognl/ObjectPropertyAccessor.java
* /ognl-3-3-5-sources-jar/ognl/OgnlRuntime.java
* /ognl-3-3-5-sources-jar/ognl/ASTEval.java
* /ognl-3-3-5-sources-jar/ognl/ASTRootVarRef.java
* /ognl-3-3-5-sources-jar/ognl/ASTProject.java
* /ognl-3-3-5-sources-jar/ognl/ASTVarRef.java
* /ognl-3-3-5-sources-jar/ognl/ListPropertyAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTStaticField.java
* /ognl-3-3-5-sources-jar/ognl/ASTStaticMethod.java
* /ognl-3-3-5-sources-jar/ognl/OgnlOps.java
* /ognl-3-3-5-sources-jar/ognl/ASTConst.java
* /ognl-3-3-5-sources-jar/ognl/ASTChain.java
* /ognl-3-3-5-sources-jar/ognl/ASTProperty.java
* /ognl-3-3-5-sources-jar/ognl/ObjectMethodAccessor.java
* /ognl-3-3-5-sources-jar/ognl/Ognl.java
* /ognl-3-3-5-sources-jar/ognl/OgnlContext.java
* /ognl-3-3-5-sources-jar/ognl/MapPropertyAccessor.java
```

\* /ognl-3-3-5-sources-jar/ognl/PropertyAccessor.java

\* /ognl-3-3-5-sources-jar/ognl/ASTSelect.java

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\* /ognl-3-3-5-sources-jar/ognl/AccessibleObjectHandler.java  
\*  
/ognl-3-3-5-sources-jar/ognl/AbstractMemberAccess.java  
\* /ognl-3-3-5-sources-jar/ognl/AccessibleObjectHandlerJDK9Plus.java  
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```
* /ognl-3-3-5-sources-jar/ognl/CollectionElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/DefaultClassResolver.java
* /ognl-3-3-5-sources-jar/ognl/ASTBitAnd.java
* /ognl-3-3-5-sources-jar/ognl/ASTDivide.java
* /ognl-3-3-5-sources-jar/ognl/ASTNotEq.java
* /ognl-3-3-5-sources-jar/ognl/ASTGreaterEq.java
*
/ognl-3-3-5-sources-jar/ognl/ASTAnd.java
* /ognl-3-3-5-sources-jar/ognl/EnumerationPropertyAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTShiftLeft.java
* /ognl-3-3-5-sources-jar/ognl/ASTUnsignedShiftRight.java
* /ognl-3-3-5-sources-jar/ognl/ObjectElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTNegate.java
* /ognl-3-3-5-sources-jar/ognl/NoSuchPropertyException.java
* /ognl-3-3-5-sources-jar/ognl/SetPropertyAccessor.java
* /ognl-3-3-5-sources-jar/ognl/EvaluationPool.java
* /ognl-3-3-5-sources-jar/ognl/NumericTypes.java
* /ognl-3-3-5-sources-jar/ognl/ExpressionSyntaxException.java
* /ognl-3-3-5-sources-jar/ognl/MapElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/IteratorElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ClassResolver.java
* /ognl-3-3-5-sources-jar/ognl/IteratorEnumeration.java
* /ognl-3-3-5-sources-jar/ognl/ASTXor.java
* /ognl-3-3-5-sources-jar/ognl/MemberAccess.java
* /ognl-3-3-5-sources-jar/ognl/ASTMultiply.java
```

```

* /ognl-3-3-5-sources-jar/ognl/EnumerationIterator.java
*
/ognl-3-3-5-sources-jar/ognl/IntHashMap.java
* /ognl-3-3-5-sources-jar/ognl/ASTSelectFirst.java
* /ognl-3-3-5-sources-jar/ognl/Node.java
* /ognl-3-3-5-sources-jar/ognl/ASTInstanceOf.java
* /ognl-3-3-5-sources-jar/ognl/MethodFailedException.java
* /ognl-3-3-5-sources-jar/ognl/InappropriateExpressionException.java
* /ognl-3-3-5-sources-jar/ognl/ASTEq.java
* /ognl-3-3-5-sources-jar/ognl/ExpressionNode.java
* /ognl-3-3-5-sources-jar/ognl/ASTSelectLast.java
* /ognl-3-3-5-sources-jar/ognl/NumberElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTGreater.java
* /ognl-3-3-5-sources-jar/ognl/ASTBitOr.java
* /ognl-3-3-5-sources-jar/ognl/ASTNotIn.java
* /ognl-3-3-5-sources-jar/ognl/DynamicSubscript.java
* /ognl-3-3-5-sources-jar/ognl/ASTAssign.java
* /ognl-3-3-5-sources-jar/ognl/ArrayElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/EnumerationElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTLess.java
* /ognl-3-3-5-sources-jar/ognl/IteratorPropertyAccessor.java
*
/ognl-3-3-5-sources-jar/ognl/ASTLessEq.java
* /ognl-3-3-5-sources-jar/ognl/NullHandler.java
* /ognl-3-3-5-sources-jar/ognl/ObjectNullHandler.java
* /ognl-3-3-5-sources-jar/ognl/ASTAdd.java
* /ognl-3-3-5-sources-jar/ognl/ASTNot.java
* /ognl-3-3-5-sources-jar/ognl/MethodAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTTest.java
* /ognl-3-3-5-sources-jar/ognl/OgnlException.java
* /ognl-3-3-5-sources-jar/ognl/ASTSubtract.java
* /ognl-3-3-5-sources-jar/ognl/ASTShiftRight.java
* /ognl-3-3-5-sources-jar/ognl/ObjectIndexedPropertyDescriptor.java
* /ognl-3-3-5-sources-jar/ognl/ASTSequence.java
* /ognl-3-3-5-sources-jar/ognl/ObjectArrayPool.java
* /ognl-3-3-5-sources-jar/ognl/ASTKeyValue.java
* /ognl-3-3-5-sources-jar/ognl/TypeConverter.java
* /ognl-3-3-5-sources-jar/ognl/DefaultTypeConverter.java
* /ognl-3-3-5-sources-jar/ognl/ASTIn.java
* /ognl-3-3-5-sources-jar/ognl/Evaluation.java
* /ognl-3-3-5-sources-jar/ognl/ElementsAccessor.java
* /ognl-3-3-5-sources-jar/ognl/ASTOr.java
*
/ognl-3-3-5-sources-jar/ognl/ASTBitNegate.java
* /ognl-3-3-5-sources-jar/ognl/ASTRemainder.java

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```

* Thrown during bytecode enhancement conversions of ognl expressions to indicate
* that a certain expression isn't currently supported as a pure java bytecode enhanced
* version.
*
* <p>
* If this exception is thrown it is expected that ognl will fall back to default ognl
* evaluation of the expression.
* </p>
*
* @author jkuhnert
*/

```

Found in path(s):

```

* /ognl-3-3-5-sources-jar/ognl/enhance/UnsupportedCompilationException.java

```

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# 1.299 guice-jmx 2.0

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Manifest-Version: 1.0  
Ant-Version: Apache Ant 1.7.0  
Created-By: 1.6.0\_07 (Apple Inc.)  
Export-Package: com.google.inject.tools.jmx;uses:="com.google.inject,javax.management";version="1.2"  
Bundle-Name: guice-jmx  
Bundle-Copyright: Copyright (C) 2006 Google Inc.  
Bundle-Vendor: Google Inc.  
Bundle-Version: 2.0  
Bundle-ManifestVersion: 2  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>  
Bundle-Description: Guice is a lightweight dependency injection framework for Java 5 and above  
Import-Package: com.google.inject;version="[1.2,2)",com.google.inject.tools.jmx;version="[1.2,2)",javax.management;resolution:=optional  
Bundle-SymbolicName: com.google.inject.tools.jmx  
Bundle-DocURL: <http://code.google.com/p/google-guice/>

Found in path(s):

\* /guice-jmx-2-0-zip/META-INF/MANIFEST.MF

# 1.300 cglib 2.1\_3

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Found in path(s):

```
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/BeanMapEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/FastClassEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/FixedValueGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/DispatcherGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/CodeEmitter.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/FastMethod.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/BeanMap.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/NoOpGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/MixinEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/AbstractClassLoader.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/DebuggingClassWriter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassTransformerChain.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/MethodWrapper.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/MethodProxy.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/EmitUtils.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/Proxy.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/MethodInterceptorGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/MethodDelegate.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/MulticastDelegate.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/core/AbstractClassGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/BulkBeanEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/CallbackFilter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/ImmutableBean.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassFilterTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/AddStaticInitTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/BeanCopier.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/CallbackGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/LazyLoaderGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ReflectUtils.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/InvocationHandlerGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/TypeUtils.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/DefaultNamingPolicy.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/VisibilityPredicate.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/FastClass.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/KeyFactory.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/Mixin.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/CollectionUtils.java
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Found in path(s):

```

* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/MethodInfoTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/AbstractInterceptFieldCallback.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/MixinEverythingEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/CallbackHelper.java
*
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/InterfaceMaker.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/AddInitTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/MethodInfo.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/RejectModifierPredicate.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ClassInfo.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/CallbackInfo.java
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```

* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/AbstractTransformTask.java

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```

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```
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/util/ParallelSorter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Signature.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ClassGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Transformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/Dispatcher.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/Callback.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/NamingPolicy.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/LazyLoader.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/NoOp.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/AbstractClassTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/MethodFilterTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/InterceptFieldEnabled.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/ProxyRefDispatcher.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/InterceptFieldTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/BulkBeanException.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ProcessSwitchCallback.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/InvocationHandler.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/TransformingClassGenerator.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/NullClassVisitor.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/TransformingClassLoader.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/UndeclaredThrowableTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/FixedValue.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/AddPropertyTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/AccessFieldTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/TinyBitSet.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/FieldProvider.java
```

```

* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/CodeGenerationException.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/UndeclaredThrowableStrategy.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/DuplicatesPredicate.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/hook/AbstractPreProcessor.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ClassNameReader.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/ConstructorDelegate.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/GeneratorStrategy.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/MethodFilter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/FieldProviderTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassEmitterTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/MixinBeanEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/DefaultGeneratorStrategy.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/BulkBean.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ClassEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Converter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/AbstractProcessTask.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassTransformerTee.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/CodeVisitorTee.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/util/StringSwitcher.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Constants.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassTransformerFactory.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/InterceptFieldCallback.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassVisitorTee.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Block.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ProcessArrayCallback.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassFilter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/RemappingCodeVisitor.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/FastConstructor.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Customizer.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/util/ParallelSorterEmitter.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ClassesKey.java
*
/cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/BeanGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/ClassReaderGenerator.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/beans/FixedKeySet.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Local.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/reflect/FastMember.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/Predicate.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/core/ObjectSwitchCallback.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/hook/AsmClassLoaderPreProcessor.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/util/SorterTemplate.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/transform/impl/InterceptFieldFilter.java
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Found in path(s):

```

* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/MethodInterceptor.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/UndeclaredThrowableException.java
* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/Factory.java

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```

* /cglib-2-1-3-sources-5-jar/net/sf/cglib/proxy/Enhancer.java

```

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```

* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
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Found in path(s):

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/netty\_epoll\_linuxsocket.h  
\* /netty-transport-native-epoll-4-1-60-final-sources-  
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java  
\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java  
\*  
/netty-transport-native-epoll-4-1-60-final-sources-jar/netty\_epoll\_linuxsocket.c  
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\* Set the {@code TCP\_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.  
\* Keys can only be set on, not read to prevent a potential leak, as they are confidential.  
\* Allowing them being read would mean anyone with access to the channel could get them.

\*/

/\*\*

\* Set the {@code TCP\_QUICKACK} option on the socket.  
\* See [TCP\\_QUICKACK](https://linux.die.net/man/7/tcp)  
\* for more details.  
\*/

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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
*
/netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java

```

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java  
\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java  
\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java  
\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java  
\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/package-info.java

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\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

\* /netty-transport-native-epoll-4-1-60-final-sources-

jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java

\*

/netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java

\* /netty-transport-native-epoll-4-1-60-final-sources-

jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

\* /netty-transport-native-epoll-4-1-60-final-sources-jar/io/netty/channel/epoll/EpollMode.java

\* /netty-transport-native-epoll-4-1-60-final-sources-

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* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 421035 - [resource]
* False alarm of resource leak warning when casting a closeable in its assignment
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* 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.
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* bug 383368 - [compiler][null] syntactic null analysis for field references
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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\* bug 319201 - [null] no warning when unboxing 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

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  - \* 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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\* 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](mailto: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](mailto:ulrich.grave@gmx.de) - Contributions

for

\* bug 386692 - Missing "unused" warning on "autowired" fields

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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 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
* Bug 388630 - @NonNull diagnostics at line 0
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 424727 - [compiler][null] NullPointerException
in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
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* Contributors:
* wharley@bea.com - initial API and implementation
* philippe.marschall@netcetera.ch - Fix for 338370
* IBM Corporation - Fix for validating relative name
*****/

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- \* IBM Corporation - Contribution for bug 188796

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompilerRequestor.java

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/Constant.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ByteConstant.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRuleSet.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/FloatConstant.java

```

*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/StringConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/BooleanConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/LongConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/IntConstant.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/AnnotationContext.java
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Found in path(s):

```

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocTagConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
*
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/JavadocParser.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ImportReference.java

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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
* bug 292478 - Report potentially null across variable assignment
* bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
* bug 354554 - [null] conditional with redundant condition
* yields weak error message
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 383368 - [compiler][null] syntactic null analysis for field references

```

- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
- \* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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\* Jesper Steen Moller - Contributions for:

\* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container

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- \* 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

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- \* Stephan Herrmann - Contributions for

- \* 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

\*\*\*\*\*/

Found

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedReferenceBinding.java

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\*   Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\*   Bug 407191 - [1.8] Binary access support for type annotations

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- \* Jesper S Moller - Contributions for
- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* 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

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 * Bug 407191 - [1.8] Binary access support for type annotations
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 * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 * checking
 * Bug 415790
 * - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
 */
```

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForStatement.java

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\* Karen Moore - fix for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=207411](https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411)

\* Stephan Herrmann <[stephan@cs.tu-berlin.de](mailto: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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\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)  
\* Stephan Herrmann - Contribution for  
\* Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

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path(s):

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\* Frits Jalvingh - fix for bug 533830.



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\* Stephan Herrmann - Contributions for

\* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NestedTypeBinding.java

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* tyeung@bea.com - initial API and implementation
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Found in path(s):

```

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryAnnotation.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MemberTypeBinding.java
*
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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 \* Stephan Herrmann - Contribution for  
 \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
 \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Javadoc.java

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 \* Contributors:  
 \* IBM Corporation - initial API and implementation  
 \* Stephan Herrmann - Contribution for  
 \* 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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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
*
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolymorphicMethodBinding.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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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/ElementImpl.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ClassFilePool.java

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\* bug 384380 - False positive on a "Potential null pointer access" after a continue

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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\* Perry James - nullStatus method improvement (165346)

\* Stephan Herrmann - Contribution for

\* bug 383368 - [compiler][null] syntactic null analysis for field references

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorExpression.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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Block.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
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 \* bug 186342 - [compiler][null] Using annotations for null checking  
 \* bug 365519 - editorial cleanup after bug 186342 and bug 365387  
 \* bug 388281 - [compiler][null] inheritance of null annotations as an option  
 \* bug 388795 - [compiler] detection of name clash depends on order of super interfaces  
 \* bug 388739 - [1.8][compiler] consider default methods when detecting whether  
 a class needs to be declared abstract  
 \* bug 390883 - [1.8][compiler] Unable to override default method  
 \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
 \* bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods  
 \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method  
 \* bug 403867 - [1.8][compiler] Suspect error about duplicate default methods  
 \* bug 391376 - [1.8] check interaction of default methods with bridge methods and generics  
 \* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795  
 \* bug 409473 - [compiler] JDT cannot compile against JRE 1.8  
 \* Bug 420080 - [1.8] Overridden Default method is reported as duplicated  
 \* Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed  
 \* Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler  
 \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
 \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.  
 \* Bug 440773 - [1.8][null]DefaultLocation.RETURN\_TYPE erroneously affects method parameters in  
 @NonNullByDefault  
 \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
 \* Bug 446442 - [1.8] merge null annotations from super methods  
 \*\*\*\*\*/

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        - \* bug 349326 - [1.7] new warning for missing try-with-resources
        - \* bug 186342 - [compiler][null] Using annotations for null checking
        - \* bug 364890 - BinaryTypeBinding should use char constants from Util
        - \* bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
        - \* bug 358903 - Filter practically unimportant resource leak warnings
        - \* bug
          - 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
        - \* bug 388800 - [1.8][compiler] detect default methods in class files
        - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
        - \* bug 331649 - [compiler][null] consider null annotations for fields
        - \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
        - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
        - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
        - \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
        - \* Bug 417295 - [1.8][null] 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

\* 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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\* IBM Corporation - fix for 342936

\* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ

\* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ

\* Frits Jalvingh - fix for bug 533830.

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\* bug 319201 - [null] no warning when unboxing SimpleNameReference 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 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 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](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java

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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExpressionFormula.java

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\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

\* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 458396 - NPE in CodeStream.invoke()

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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- \* 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

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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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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 292478 - Report potentially null across variable assignment,

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:  
info cannot be null

\* Bug 458396 - NPE in CodeStream.invoke()

\* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

\* Jesper S Moller - <jesper@selskabet.org> - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\* bug 378674 - "The method can be declared as static" is wrong

\* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
* Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
 checking
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\*   bug 186342 - [compiler][null] Using annotations for null checking

- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

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\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly

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* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415850 - [1.8] Ensure RunJDTCoreTests
* can cope with null annotations enabled
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on 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
- \*

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java

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* bug 328281 - visibility leaks not detected when analyzing unused field in private class
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java

\*

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Receiver.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InsideSubRoutineFlowContext.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/JDTCompilerAdapter.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java

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\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
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\* Jesper S Moller - Contributions for  
\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression  
\* Stephan Herrmann - Contribution for  
\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super  
\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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* Bug 416182 - [1.8][compiler][null]
Contradictory null annotations not rejected
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* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* Stephan Herrmann - Contribution for
* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*****/

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/PolyTypeBinding.java

```

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\* Stephan Herrmann - Contributions for

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 358903 - Filter practically unimportant resource leak warnings

\* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?

\* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account

\* bug 382069 - [null] Make

the null analysis consider JUnit's assertNotNull similarly to assertions

\* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly

\* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource

\* Bug 425183 - [1.8][inference] make CaptureBinding18 safe

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

\* bug 527554 - [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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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeConstants.java

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\* Stephan Herrmann - Contribution for

\* bug 331649 - [compiler][null] consider null annotations for fields

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 458396 - NPE in CodeStream.invoke()

\*\*\*\*\*/

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\* BEA - Patch for bug 172743

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\* Contributors:

\* IBM Corporation - initial API and implementation

\* 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 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):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReturnStatement.java

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\* bug 319201 - [null] no warning when unboxing 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):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AND\_AND\_Expression.java

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- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
- \* Stephan Herrmann - Contribution for
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3  
Functional Interface Parameterization Inference"
- \* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
- \* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FunctionalExpression.java  
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\* IBM Corporation - fix for 342598

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\* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

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\* IBM Corporation - fix for 342598

\* IBM Corporation - Java 8 support

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for



- \* bug 185682 - Increment/decrement operators mark local variables as read
- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/Reference.java

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- \* Jesper S Moller - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference

expressions

- \* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
- \* Stephan Herrmann - Contribution for
- \* bug 402028 - [1.8][compiler] null analysis for reference

expressions

- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to

Files::walk

- \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
- \* Bug 427438
- [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J

involved

- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
- \* Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 438945 - [1.8] NullPointerException

InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading

- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's

work)

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ReferenceExpression.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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* 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java
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* bug 383368 - [compiler][null] syntactic null analysis for field references
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* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
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* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
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* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
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* Bug 417295 - [1.8][null]
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Message type annotated null analysis to gel well with deep encoded type bindings.

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* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
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* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
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* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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```
* Andy Clement - Contributions for
```

```
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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\* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

\* bug 401030 - [1.8][null] Null analysis support for lambda methods.

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

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- \* 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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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java

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- \* Contributors:
- \* wharley@bea.com - derived base class from BatchMessengerImpl
- \*
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- \* Bug 440474 - [null] textual encoding of external null annotations

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\* Stephan Herrmann - Contributions for

\* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to  
org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

\* Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type

annotations after bug 392099

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434600 - Incorrect null analysis error reporting on type parameters

\* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

\* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>

\* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)

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* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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\* Stephan Herrmann - Contribution for  
\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault  
\*\*\*\*\*/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java  
\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
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* bug 186342 - [compiler][null] Using annotations for null checking
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* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
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* bug 325755 - [compiler] wrong initialization state after conditional expression
* bug 320170 - [compiler] [null] Whitebox issues in null analysis
* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds

\* Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard

\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker  
hint from applicability analysis

\* Bug 456924 - StackOverflowError during compilation

\* Bug 462790 - [null] NPE in Expression.computeConversion()

\* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

\* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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 * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
 * Bug 328281 - visibility leaks not detected when analyzing unused field in private class
 * Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
 * Bug 354536 - compiling package-info.java still depends on the order of compilation units
 * Bug 349326 - [1.7] new warning for missing try-with-resources
 * Bug
358903 - Filter practically unimportant resource leak warnings
 * Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
 * Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
 * Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
 * Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
 * Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens
"sometimes"
 * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -

```

Contributions for

```
* Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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\* 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 serializeable lambdas
- \* Sebastian Zarnekow - Contributions

for

- \* bug 544921 - [performance] Poor performance with large source files

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\* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.

\* Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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Found in path(s):

```

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
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* bug 407191 - [1.8] Binary access support for type annotations
* Stephan Herrmann - Contribution for
* Bug 440474 - [null] textual encoding of external null annotations
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- \* Benjamin Muskalla - Contribution for bug 239066
- \* Stephan Herrmann - Contributions for
  - \* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
  - \* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
  - \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
  - \* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
  - \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
  - \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
  - \* bug 374605 - Unreasonable warning for enum-based switch statements
  - \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
  - \* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
  - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
  - \* bug 376053 - [compiler][resource] Strange potential resource leak problems
  - \* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
  - \* bug 393719 - [compiler] inconsistent warnings on iteration variables
- \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
- \* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
- \* bug 331649 - [compiler][null] consider null annotations for fields
- \* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
- \* bug 376590 - Private fields with @Inject are ignored by unused field validation
- \* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
- \* bug 402028 - [1.8][compiler] null analysis for reference expressions
- \* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
- \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug
  - 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  - \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
  - \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
  - \* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk

- \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- \* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
- \* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
- \* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE\_USE locations
- \* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
- \* Bug 430150 - [1.8][null] stricter checking against type variables
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
- \* Bug 438467 - [compiler][null] Better error position for "The method \_ cannot implement the corresponding method \_ due to incompatible nullness constraints"
- \* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
- \* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
- \* Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
- \* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
- \* bug 412151 - [1.8][compiler] Check repeating annotation's collection type
- \* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
- \* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
- \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- \* bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type
- \* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
- \* bug 386692 - Missing "unused" warning on "autowired" fields

\*\*\*\*\*/

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java

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      - \* Nick Teryaev - fix for bug ([https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=40752](https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752))
      - \* Stephan Herrmann - Contributions for
        - \* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
        - \* bug 349326 - [1.7] new warning for missing try-with-resources
        - \* bug 186342 - [compiler][null] Using annotations for null checking
        - \* bug 358903 - Filter practically unimportant resource leak warnings
        - \* bug
          - 370639 - [compiler][resource] restore the default for resource leak warnings
        - \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
        - \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
        - \* bug 379784 - [compiler] "Method can be static" is not getting reported
        - \* bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
        - \* bug 388281 - [compiler][null] inheritance of null annotations as an option
        - \* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
        - \* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
        - \* bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
        - \* bug 331649 - [compiler][null] consider null annotations for fields
        - \* bug 383368 - [compiler][null] syntactic null
          - analysis for field references
        - \* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
        - \* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
        - \* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
        - \* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
        - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
        - \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
        - \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
        - \* Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
        - \* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
        - \* Bug 417295 - [1.8][null] Massage type annotated null analysis
          - to gel well with deep encoded type bindings.
        - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
        - \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
        - \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
        - \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
        - \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
        - \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
        - \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
        - \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
        - \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
        - \* Bug 427438 - [1.8][compiler]

NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
- \* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
- \* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
- \* Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
- \* Bug 470958 - [1.8] Unable to convert lambda
- \* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java

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- \* Stephan Herrmann - Contributions for
- \* 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](mailto:aclement@gopivotal.com) - Contributions for
- \* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CastExpression.java

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- \* IBM Corporation - Fix for bug 328575

\* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashSetOfInt.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/InvalidInputException.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/ObjectVector.java

\*

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java



\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java

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\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java

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\* tyeung@bea.com - initial API and implementation

\* IBM Corporation - fix for bug 342757

\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithParameterAnnotations.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 440687 - [compiler][batch][null] improve command line option for external annotations  
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 \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/FileSystem.java  
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\* Benjamin Muskalla - Contribution for bug 239066

\* Stephan Herrmann - Contribution for

\* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance

\* bug 388954 - [1.8][compiler] detect default methods in class files

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs  
to be declared abstract

\* bug 390883 - [1.8][compiler] Unable to override default method

\* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method

\* bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795

\* bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)

\* bug 409473 - [compiler] JDT cannot compile against JRE 1.8

\* Bug 420080 - [1.8] Overridden Default method is reported as duplicated

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Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java

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 \* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for  
 \* Bug 407191 - [1.8] Binary access support for type annotations  
 \*\*\*\*\*/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryMethod.java

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- \* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
- \* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
- \* Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
- \* Stephan Herrmann - Contribution for
- \* bug 401030 - [1.8][null] Null analysis support for lambda methods.
- \* Bug 392099
- [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
- \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
- \* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- \* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
- \* Bug 426563 - [1.8] AIOOBE when method with error  
invoked with lambda expression as argument
- \* Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is  
applicable here"
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- \* Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda  
compatibility constraint
- \* Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
- \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException  
instead of IOException)
- \* Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type  
variables
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Bug 455723 - Nonnull argument not correctly inferred in loop
- \* Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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 \* Stephan Herrmann - Contributions for  
 \* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE  
 \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"  
 \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking  
 \* Bug 417758 - [1.8][null] Null safety compromise during array creation.  
 \* Bug  
 427163 - [1.8][null] bogus error "Contradictory null specification" on varargs  
 \* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for  
 \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)  
 \* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array  
 \*\*\*\*\*/

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- \* Stephan Herrmann - Contributions for
- \* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
- \* bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
- \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 417295 - [1.8][null] 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](mailto:jesper@selskabet.org)> - Contributions for
- \* bug 378674 - "The method can be declared as static" is wrong
- \* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
- \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
- \* Till Brychcy - Contributions for
- \* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

\*\*\*\*\*/

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\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

\* IBM Corporation - Bug fixes

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\* wharley@bea.com - initial API and implementation

\* (originally in org.eclipse.jdt.apt.core)



\* IBM Corporation - Bug 513790

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\* 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

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java

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\* Bug 473178

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\*   Stephan Herrmann - Contribution for

\*     bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code

\*     bug 391376 - [1.8] check interaction of default methods with bridge methods and generics

\*     bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by 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](mailto: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](mailto: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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\* daolaf@gmail.com - Contribution for bug 3292227

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\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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* Contributors:
* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*****/

```

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java

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* Tom Tromey - Contribution for bug 125961
* Tom Tromey - Contribution for bug 159641
* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 359721 - [options] add command line option
* for new warning token "resource"
* bug 365208 - [compiler][batch] command line options for annotation based null analysis
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

```

- \* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
- \* Bug 408815 - [batch][null] Add CLI option for  
COMPILER\_PB\_SYNTACTIC\_NULL\_ANALYSIS\_FOR\_FIELDS
- \* Jesper S Moller - Contributions for
- \* bug 407297 - [1.8][compiler] Control generation of parameter names by option
- \* Mat Booth - Contribution for bug 405176
- \* Frits Jalvingh -  
fix for bug 533830.

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- \*Contributors:
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- \* Stephan Herrmann - Contribution for
- \* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

\*\*\*\*\*/

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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] 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 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument

\* Bug 426792 - [1.8][inference][impl] generify new type inference engine

\* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

\* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

\* Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion

\* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.

\* Bug 435962 - [RC2] StackOverFlowError when building

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

\* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

\* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\*

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/TypeBinding.java

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* Stephan Herrmann - Contribution for
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
*****/

```

Found in path(s):

```

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ThisReference.java
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```

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Options.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/ArchiveFileObject.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Util.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java
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```

```

/*****

```

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*
* Contributors:
* wharley@bea.com - initial API and implementation
* IBM Corporation - fix for 342598
* IBM Corporation - Java 8 support
* het@google.com - Bug 427943 - The method
org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException
*****/

```

Found in path(s):

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/Factory.java
```

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* Contributors:
* Andrey Loskutov <loskutov@gmx.de> - initial API and implementation
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Found in path(s):

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/CtSym.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IModulePathEntry.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* Bug 427438 - [1.8][compiler] NPE at
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*****/

```

```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java
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*
* Contributors:
* Stephan Herrmann - initial API and implementation
* Till Brychcy - Contributions for
* Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
*****/

```

```

Found in path(s):
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NullAnnotationMatching.java

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/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CompilationProgress.java  
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredAnnotation.java

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* Contributors:
* IBM Corporation - initial API and implementation
* Frits Jalvingh - fix for bug 533830.
*****/

```

Found in path(s):

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseCompiler.java

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Found in path(s):

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OpensStatement.java
```

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* Contributors:
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```

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ReadManager.java
```

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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8][null] Massage type annotated
```

null analysis to gel well with deep encoded type bindings.

\* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\*\*\*\*\*/

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java

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\* Tom Tromey - patch for readTable(String) as described in [http://bugs.eclipse.org/bugs/show\\_bug.cgi?id=32196](http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196)

\* Stephan Herrmann - Contributions for

\* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 393719 - [compiler] inconsistent warnings on iteration variables

\* bug 382353 - [1.8][compiler] Implementation property modifiers

should be accepted on default methods.

\* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods

\* bug 401035 - [1.8] A few tests have started failing recently

\* Jesper S Moller - Contributions for

\* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

\* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods

\* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration

\* bug 393192 - Incomplete type hierarchy with > 10 annotations

\* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\* Andy Clement - Contributions for

\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

\*

Bug 415821 - [1.8][compiler] CLASS\_EXTENDS target type annotation missing for anonymous classes

\*\*\*\*\*/

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/Parser.java

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* Stephan Herrmann - Contribution for
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*****/

```

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java

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* Contributors:
* IBM Corporation - initial API and implementation
* IBM Corporation - added the following constants
* NonStaticAccessToStaticField
* NonStaticAccessToStaticMethod
* Task
* ExpressionShouldBeAVariable
* AssignmentHasNoEffect
* IBM Corporation - added the following constants
* TooManySyntheticArgumentSlots
* TooManyArrayDimensions
* TooManyBytesForStringConstant
* TooManyMethods
* TooManyFields
* NonBlankFinalLocalAssignment
* ObjectCannotHaveSuperTypes
* MissingSemiColon
* InvalidParenthesizedExpression

```

- \* EnclosingInstanceInConstructorCall
- \* BytecodeExceeds64KLimitForConstructor
- \* IncompatibleReturnTypeForNonInheritedInterfaceMethod
- \* UnusedPrivateMethod
- \* UnusedPrivateConstructor
- \* UnusedPrivateType
- \* UnusedPrivateField
- \* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
- \* InvalidExplicitConstructorCall
- \* IBM Corporation - added the following constants
- \* PossibleAccidentalBooleanAssignment
- \* SuperfluousSemicolon
- \* IndirectAccessToStaticField
- \* IndirectAccessToStaticMethod
- \* IndirectAccessToStaticType
- \* BooleanMethodThrowingException
- \* UnnecessaryCast
- \* UnnecessaryArgumentCast
- \* UnnecessaryInstanceOf
- \* FinallyMustCompleteNormally
- \* UnusedMethodDeclaredThrownException
- \* UnusedConstructorDeclaredThrownException
- \* InvalidCatchBlockSequence
- \* UnqualifiedFieldAccess
- \* IBM Corporation - added the following constants
- \* Javadoc
- \* JavadocUnexpectedTag
- \* JavadocMissingParamTag
- \* JavadocMissingParamName
- \* JavadocDuplicateParamName
- \* JavadocInvalidParamName
- \* JavadocMissingReturnTag
- \* JavadocDuplicateReturnTag
- \* JavadocMissingThrowsTag
- \* JavadocMissingThrowsClassName
- \* JavadocInvalidThrowsClass
- \* JavadocDuplicateThrowsClassName
- \* JavadocInvalidThrowsClassName
- \* JavadocMissingSeeReference
- \* JavadocInvalidSeeReference
- \* JavadocInvalidSeeHref
- \* JavadocInvalidSeeArgs
- \* JavadocMissing
- \* JavadocInvalidTag
- \* JavadocMessagePrefix
- \* EmptyControlFlowStatement
- \* IBM Corporation - added the following constants



- \* IllegalUsageOfQualifiedTypeReference
- \* InvalidDigit
- \* IBM Corporation - added the following constants
- \* ParameterAssignment
- \* FallthroughCase
- \* IBM Corporation - added the following constants
- \* UnusedLabel
- \* UnnecessaryNLSTag
- \* LocalVariableMayBeNull
- \* EnumConstantsCannotBeSurroundedByParenthesis
- \* JavadocMissingIdentifier
- \* JavadocNonStaticTypeFromStaticInvocation
- \* RawTypeReference
- \* NoAdditionalBoundAfterTypeVariable
- \* UnsafeGenericArrayForVarargs
- \* IllegalAccessFromTypeVariable
- \*
- AnnotationValueMustBeArrayInitializer
- \* InvalidEncoding
- \* CannotReadSource
- \* EnumStaticFieldInInInitializerContext
- \* ExternalProblemNotFixable
- \* ExternalProblemFixable
- \* IBM Corporation - added the following constants
- \* AnnotationValueMustBeAnEnumConstant
- \* OverridingMethodWithoutSuperInvocation
- \* MethodMustOverrideOrImplement
- \* TypeHidingTypeParameterFromType
- \* TypeHidingTypeParameterFromMethod
- \* TypeHidingType
- \* IBM Corporation - added the following constants
- \* NullLocalVariableReference
- \* PotentialNullLocalVariableReference
- \* RedundantNullCheckOnNullLocalVariable
- \* NullLocalVariableComparisonYieldsFalse
- \* RedundantLocalVariableNullAssignment
- \* NullLocalVariableInstanceOfYieldsFalse
- \* RedundantNullCheckOnNonNullLocalVariable
- \* NonNullLocalVariableComparisonYieldsFalse
- \* IBM Corporation - added the following constants
- \* InvalidUsageOfTypeParametersForAnnotationDeclaration
- \* InvalidUsageOfTypeParametersForEnumDeclaration
- \* IBM Corporation - added the following constants
- \* RedundantSuperinterface
- \* Benjamin Muskalla - added the following constants
- \* MissingSynchronizedModifierInInheritedMethod
- \* Stephan Herrmann - added the following constants
- \* UnusedObjectAllocation

- \* PotentiallyUnclosedCloseable
- \* PotentiallyUnclosedCloseableAtExit
- \* UnclosedCloseable
- \* UnclosedCloseableAtExit
- \* ExplicitlyClosedAutoCloseable
- \*     RequiredNonNullButProvidedNull
- \*     RequiredNonNullButProvidedPotentialNull
- \*     RequiredNonNullButProvidedUnknown
- \*     NullAnnotationNameMustBeQualified
- \*     IllegalReturnNullityRedefinition
- \*     IllegalRedefinitionToNonNullParameter
- \*     IllegalDefinitionToNonNullParameter
- \*     ParameterLackingNonNullAnnotation
- \*     ParameterLackingNullableAnnotation
- \*     PotentialNullMessageSendReference
- \*     RedundantNullCheckOnNonNullMessageSend
- \*     CannotImplementIncompatibleNullness
- \*     RedundantNullAnnotation
- \*     RedundantNullDefaultAnnotation
- \*     RedundantNullDefaultAnnotationPackage
- \*     RedundantNullDefaultAnnotationType
- \*     RedundantNullDefaultAnnotationMethod
- \*     ContradictoryNullAnnotations
- \*     IllegalAnnotationForBaseType
- \*     RedundantNullCheckOnSpecdNonNullLocalVariable
- \*     SpecdNonNullLocalVariableComparisonYieldsFalse
- \*     RequiredNonNullButProvidedSpecdNullable
- \*     MissingDefaultCase
- \*     MissingEnumConstantCaseDespiteDefault
- \*     UninitializedLocalVariableHintMissingDefault
- \*     UninitializedBlankFinalFieldHintMissingDefault
- \*     ShouldReturnValueHintMissingDefault
- \*     IllegalModifierForInterfaceDefaultMethod
- \*     InheritedDefaultMethodConflictsWithOtherInherited
- \*     ConflictingNullAnnotations
- \*     ConflictingInheritedNullAnnotations
- \*     UnsafeElementTypeConversion
- \*     ArrayReferencePotentialNullReference
- \*     DereferencingNullableExpression
- \*     NullityMismatchingTypeAnnotation
- \*     NullityMismatchingTypeAnnotationSuperHint
- \*     NullityUncheckedTypeAnnotationDetail
- \*     NullityUncheckedTypeAnnotationDetailSuperHint
- \*     NullableFieldReference
- \*     UninitializedNonNullField
- \*     UninitializedNonNullFieldHintMissingDefault
- \*     NonNullMessageSendComparisonYieldsFalse
- \*     RedundantNullCheckOnNonNullSpecdField

- \* NonNullSpecdFieldComparisonYieldsFalse
- \* NonNullExpressionComparisonYieldsFalse
- \* RedundantNullCheckOnNonNullExpression
- \* ReferenceExpressionParameterNullityMismatch
- \* ReferenceExpressionParameterNullityUnchecked
- \* ReferenceExpressionReturnNullRedef
- \* ReferenceExpressionReturnNullRedefUnchecked
- \* DuplicateInheritedDefaultMethods
- \* SuperAccessCannotBypassDirectSuper
- \* SuperCallCannotBypassOverride
- \* ConflictingNullAnnotations
- \* ConflictingInheritedNullAnnotations
- \* UnsafeElementTypeConversion
- \* PotentialNullUnboxing
- \* NullUnboxing
- \* NullExpressionReference
- \* PotentialNullExpressionReference
- \* RedundantNullCheckAgainstNonNullType
- \* NullAnnotationUnsupportedLocation
- \* NullAnnotationUnsupportedLocationAtType
- \* NullityMismatchTypeArgument
- \* ContradictoryNullAnnotationsOnBound
- \* UnsafeNullnessCast
- \* ContradictoryNullAnnotationsInferred
- \* NonNullDefaultDetailIsNotEvaluated
- \* NullNotCompatibleToFreeTypeVariable
- \* NullityMismatchAgainstFreeTypeVariable
- \* ImplicitObjectBoundNonNullDefault
- \* IllegalParameterNullityRedefinition
- \* ContradictoryNullAnnotationsInferredFunctionType
- \* IllegalReturnNullityRedefinitionFreeTypeVariable
- \* UnlikelyCollectionMethodArgumentType
- \* UnlikelyEqualsArgumentType
- \* Jesper S Moller - added the following constants
- \* TargetTypeNotAFunctionalInterface
- \* OuterLocalMustBeEffectivelyFinal
- \* IllegalModifiersForPackage
- \* DuplicateAnnotationNotMarkedRepeatable
- \* DisallowedTargetForContainerAnnotation
- \* RepeatedAnnotationWithContainerAnnotation
- \* ContainingAnnotationMustHaveValue
- \* ContainingAnnotationHasNonDefaultMembers
- \* ContainingAnnotationHasWrongValueType
- \* ContainingAnnotationHasShorterRetention
- \* RepeatableAnnotationHasTargets
- \* RepeatableAnnotationTargetMismatch
- \* RepeatableAnnotationIsDocumented
- \* RepeatableAnnotationIsInherited

- \* RepeatabeAnnotationWithRepeatingContainerAnnotation
- \* VarLocalMultipleDeclarators
- \* VarLocalCannotBeArray
- \* VarLocalReferencesItself
- \* VarLocalWithoutInitiazlier
- \* VarLocalInitializedToNull
- \* VarLocalCannotBeArrayInitalizers
- \* VarLocalCannotBeLambda
- \* VarLocalCannotBeMethodReference
- \* VarIsReserved
- \* VarIsReservedInFuture
- \* VarIsNotAllowedHere

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/IPProblem.java

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\* Contributors:

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\* Stephan Herrmann - Contribution for

\* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax

\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super

\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 378674 - "The method can be declared as static" is wrong

\*\*\*\*\*/

Found

in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedThisReference.java

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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
*****/

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* 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):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java

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* Stephan Herrmann - Contributions for
* Bug 186342 - [compiler][null] Using annotations for null checking
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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```

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MostSpecificExceptionMethodBinding.java

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* Contributors:
* IBM Corporation - initial API and implementation
* Walter Harley - Patch for ensuring the parent folders are created
*****/

```

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileObject.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/EclipseFileObject.java

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- \* Contributors:
- \* IBM Corporation - initial API and implementation
- \* Stephan Herrmann - Contribution for
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 370930 - NonNull annotation not considered for enhanced for loops
- \* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
- \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- \* bug 393719 - [compiler] inconsistent warnings
- on iteration variables
- \* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
- \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
- \* Jesper S Moller - Contribution for
- \* bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
- \* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

\*\*\*\*\*/

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java

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- \* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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`/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java`

`/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java`

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\* Erling Ellingsen - patch for bug 125570

\* Stephan Herrmann - Contribution for

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

\* Sebastian Zarnekow - Contribution for

\* Bug 544921 - [performance] Poor performance with large source files  
\*\*\*\*\*/

Found

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\* [tyeung@bea.com](mailto:tyeung@bea.com) - initial API and implementation

\* olivier\_thomann@ca.ibm.com - add hashCode() and equals(..) methods

\*\*\*\*\*/

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationInfo.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ElementValuePairInfo.java

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\* het@google.com - Bug 441790

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\* Igor Fedorenko - extracted from ElementsImpl

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\* Stephan Herrmann <[stephan@cs.tu-berlin.de](mailto:stephan@cs.tu-berlin.de)> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read

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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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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations

\* bug 385626 - @NonNull fails across

loop boundaries

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 453483 - [compiler][null][loop] Improve null analysis for loops

\* Bug 455723 - Nonnull argument not correctly inferred in loop  
\* Jesper S Moller - Contributions for  
\* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops  
\*\*\*\*\*/

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\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points

\* bug 358903 - Filter practically unimportant resource

leak warnings

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'

- \* bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
- \* bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
- \* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
- \* bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
- \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
- \* Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
- \* Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
- \* Jesper Steen Moller - Contributions for
- \* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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\* bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax  
\* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super  
\* bug 404728 - [1.8]NPE on QualifiedSuperReference error

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\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK  
\* bug 370639 - [compiler][resource] restore the default for resource leak warnings  
\* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'  
\* Bug 417758 - [1.8][null] Null safety compromise during array creation.  
\* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)  
\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations  
\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*****/

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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/NameReference.java
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- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java

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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryModule.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.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 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults  
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*****/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/TypeAnnotationCodeStream.java  
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* 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):

```

* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/LocalVariableBinding.java
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* Stephan Herrmann - Contribution for
* 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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```

Found

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ArrayReference.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.

\*\*\*\*\*/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredField.java

\*

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/AnnotationMethodDeclaration.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/INameEnvironment.java

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\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* Jesper S Moller - Contributions for  
\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment  
\*\*\*\*\*/

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\* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking

\* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute

\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations  
\*\*\*\*\*/

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\* [wharley@bea.com](mailto:wharley@bea.com) - initial API and implementation

\* IBM Corporation - fix for 342598  
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* Stephan Herrmann - Contribution for bug 349326 - [1.7] new warning for missing try-with-resources
*****/

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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] 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 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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 \* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto: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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 \* Luiz-Otavio Zorzella <[zorzella@gmail.com](mailto:zorzella@gmail.com)> - Improve CamelCase algorithm  
 \* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete  
 \*\*\*\*\*/

suggestions

\* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing

\*\*\*\*\*/

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\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TextBlock.java

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\* bug 292478 - Report potentially null across variable assignment

\* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

\* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field

references

\* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 426792 - [1.8][inference][impl] generify new type inference engine

\* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

\* Bug 427438 - [1.8][compiler] NPE at

org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)

- \* Bug 426996 - [1.8][inference]  
try to avoid method Expression.unresolve()?
- \* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
- \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
- \* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
- \* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
- \* Bug 473178

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- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
- \* Bug 392099
- [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
- \* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
- \* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
- \* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 400874 - [1.8][compiler]
- Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- \* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch

- \* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
- \* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
- \* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
- \* Bug 426792 - [1.8][inference][impl] generify new type inference engine
- \* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
- \* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
- \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- \* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
- \* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
- \* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
- \* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
- \* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
- \* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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  - \* Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
  - \* Jesper S Møller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for

\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null

\* Bug 400874 - [1.8][compiler]



Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 458396 - NPE in CodeStream.invoke()
- \* Jesper S Moller - Contributions for
- \* Bug 378674 - "The method can be declared as static" is wrong
- \* Robert Roth <robert.roth.off@gmail.com> - Contributions for
- \* Bug 361039 - NPE in FieldReference.optimizedBooleanConstant

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FieldReference.java

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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):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/model/TypesImpl.java

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\*

\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

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Found in path(s):

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jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java

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\* Jesper S Moller - Contributions for

\* Bug 378674 - "The method can be declared as static" is wrong

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\*   Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for  
\*   bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource  
\*\*\*\*\*/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/Substitution.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java

\*

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java

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* Contributors:
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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Found in path(s):

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java
```

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```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
```

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ReductionResult.java
```

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```

\* 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 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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\* Stephan Herrmann - Contributions for

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions

\* bug 403086 - [compiler][null] include the effect of 'assert'

in syntactic null analysis for fields  
\*\*\*\*\*/

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java

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- \* Stephan Herrmann - Contributions for
  - \* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
  - \* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
  - \* bug 349326 - [1.7] new warning for missing try-with-resources
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 358903 - Filter practically unimportant resource leak warnings
  - \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
  - \* bug 370639 - [compiler][resource] restore the default for resource leak warnings
  - \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  - \* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
  - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
  - \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
  - \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  - \* Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
  - \* Bug 424710
    - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
  - \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
  - \* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
  - \* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
  - \* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
  - \* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
  - \* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
  - \* Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
  - \* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
  - \* Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
  - \* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
  - \* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  - \* Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
  - \* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
  - \* Bug 434297 - [1.8] NPE in LambdaExpression.analyseCode with lambda 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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\* 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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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* 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 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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- \* wharley@bea.com - initial API and implementation
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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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in path(s):

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java

\*

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/core/compiler/CategorizedProblem.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredStatement.java

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java

\*

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/OperatorIds.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/AccessRule.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FalseLiteral.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/ClassFileStruct.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IDependent.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemBinding.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfIntValues.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortMethod.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredImport.java

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/DoubleCache.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InnerEmulationDependency.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocReturnStatement.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PrefixExpression.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IDebugRequestor.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/TrueLiteral.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SimpleSet.java

\*

/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/CharLiteral.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/antadapter/AntAdapterMessages.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortType.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToInt.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/problem/AbortCompilation.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/IProblemFactory.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticFieldBinding.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfInt.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/FloatCache.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/ExtendedStringLiteral.java

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*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/Label.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/AnnotationHolder.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/PostfixExpression.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocArrayQualifiedTypeReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/JavadocSingleNameReference.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/IntegerCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/ObjectCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SyntheticArgumentBinding.java
*
/ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MagicLiteral.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/ParameterizedFieldBinding.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/LongCache.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/codegen/CaseLabel.java
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* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
```

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*****/
```

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\* [tyeung@bea.com](mailto:tyeung@bea.com) - initial API and implementation

\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations

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\* Stephan Herrmann - Contribution for bug 295551

\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Frits Jalvingh - contributions for bug 533830.

\* Red Hat Inc. - add module-info Javadoc support

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\* bug 332637 - Dead Code detection removing code that isn't dead

\* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6

\* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional

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* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
* bug 186342 - [compiler][null] Using annotations for null checking
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
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* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

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\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

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\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

\* Jesper Steen Moller - Contributions for

\* Bug 412150 [1.8] [compiler]

Enable reflected parameter names during annotation processing

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 * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 374605 - Unreasonable warning for enum-based switch statements
 * bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
 * bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
 * bug 401030 - [1.8][null] Null analysis support for lambda methods.
 * Bug
 * 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
 * Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Jesper S Moller - Contributions for
 * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/flow/InitializationFlowContext.java
- \*
- /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteral.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/IntLiteralMinValue.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/InferenceContext.java
- \* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java

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\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* bug

392862 - [1.8][compiler][null] Evaluate null annotations on array types

\* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files

\* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

\* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

\* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

\* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

\* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

\* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

\* Bug 416190 - [1.8][null]

detect incompatible overrides due to null type annotations

\* Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

\* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

\* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations



- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
- \* Bug 457079 - Regression: type inference
- \* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
- \* Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
- \* Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

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- \* IBM Corporation - fix for 342598
- \* IBM Corporation - Java 8 support

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- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 367203 - [compiler][null] detect assigning null to nonnull argument
- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387

- \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
- \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- \* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* bug 388281 - [compiler][null] inheritance of null annotations as an option
- \* bug 401030 - [1.8][null] Null analysis support for lambda methods.
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
- \* Bug 417295 - [1.8][null] 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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- \* 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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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
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* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/apt/util/JrtFileSystem.java
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/tool/JrtFileSystem.java
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* 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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- \* Stephan Herrmann - Contributions for

- \* bug 186342 - [compiler][null] Using annotations for null checking

- \* bug 367203 - [compiler][null] detect assigning null to nonnull argument

- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387

- \* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations

- \* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

- \* bug 388281 - [compiler][null] inheritance of null annotations as an option

- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

- \* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

- \* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

- \* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.

- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

- \* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location

- \* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable

- \* Bug 443347 - [1.8][null]

@NonNullByDefault should not affect constructor arguments of an anonymous instantiation

- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

- \* Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'

- \* Bug 471611 - Error on hover on call to generic method with null annotation

- \* Jesper Steen Moller - Contributions for

\* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java

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\* Contributors:

\* tyeung@bea.com - initial API and implementation

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithAnnotations.java

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- \* Stephan Herrmann - Contributions for
- \* bug 349326 - [1.7] new warning for missing try-with-resources
- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
- \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
- \* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
- \* bug 383368 - [compiler][null] syntactic null analysis for field references
- \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
- \* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
- \* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
- \* Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
- \* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Jesper S Moller <jesper@selskabet.org> - Contributions for
- \* bug 378674 - "The method can be declared as static" is wrong

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\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java

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\* Stephan Herrmann - Contributions for

\* bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding

\* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

\* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

- \* Bug 416181 - [1.8][compiler][null] Invalid assignment  
is not rejected by the compiler
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434600 - Incorrect null analysis error reporting on type parameters
- \* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
- \* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
- \* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
- \* Andy Clement - Contributions for
- \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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- \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
- \* Bug 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

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* Stephan Herrmann - Contributions for
* bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
*****/

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\* Stephan Herrmann - Contribution for

\* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations

\* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis

\* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief

\* Till Brychcy - Contribution for

\* Bug 473713

- [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

\*\*\*\*\*/

/\* Cache the derived type, tagging it as a derivative of both the key type and the naked type.

E.g: `int @NonNull []` would be tagged as a derived type of both `int` and `int []`. This is not needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

Taking parameterized types as an example, a call to `getParamaterizedType` can be made with annotations to create `@NonNull List<@NonNull String>` in one stroke. Or a parameterized type can be created first and then annotated via `getAnnotatedType`. In the former case, the tables get looked up with `List` as the key, in the latter with `List<String>` as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these alternate code paths. Unless care is exercised, we will end up with duplicate objects (that share the same TypeBinding.id => correctness is not an issue, but memory wastage is)  
\*/

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\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* Bug 407191 - [1.8] Binary access support for type annotations

\*\*\*\*\*/

Found in path(s):

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java

\* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java

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\* Stephan Herrmann - Contribution for

\* Bug 458396 - NPE in CodeStream.invoke()

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 * Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
 * Stephan Herrmann - Contribution for
 * bug 331649 - [compiler][null] consider null annotations for fields
 */
```

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\* IBM Corporation - Fix for bug 341494  
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\* IBM Corporation - Java 8 support  
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\* IBM Corporation - initial API and implementation  
\* 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):

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```

* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 265744 - Enum switch should warn about missing default
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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Found in path(s):

```
* /ecj-3-26-0-sources-3-jar/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java
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* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425783 - An
internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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\* Jesper S Moller - Contributions for

\* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335

\* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\* Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas

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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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\* Stephan Herrmann - Contribution for

\* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method

\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Bug 440687 - [compiler][batch][null] improve command line option for external annotations

\* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

\*

bug 407191 - [1.8] Binary access support for type annotations

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\* Benjamin Muskalla - Contribution for bug 239066

\* Stephan Herrmann - Contributions for

\* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used

\* bug 295551 - Add option to automatically promote all warnings to errors

\* bug 349326 - [1.7] new warning for missing try-with-resources

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug

370639 - [compiler][resource] restore the default for resource leak warnings

\* bug 366063 - Compiler should not add synthetic @NonNull annotations

\* bug 374605 - Unreasonable warning for enum-based switch statements

\* bug 388281 - [compiler][null] inheritance of null annotations as an option

\* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

\* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),

Collection#remove(Object) et al.

- \* Jesper Steen Moller - Contributions for
- \* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
- \* bug 407297 - [1.8][compiler] Control generation of parameter names by option

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in path(s):

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- \* bug 186342 - [compiler][null] Using annotations for null checking
- \* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
- \* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
- \* bug 413958 - Function override returning inherited Generic Type
- \* Bug 400874 - [1.8][compiler] Inference infrastructure  
should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- \* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- \* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
- \* Bug 427438 - [1.8][compiler] NPE at  
org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
- \* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
- \* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
- \* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
- \* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
- \* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
- \* Bug 446442 - [1.8] merge null annotations from super methods
- \* Bug 457079 - Regression: type

inference

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* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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  - \* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
  - \* bug 186342 - [compiler][null] Using annotations for null checking
  - \* bug 365519 - editorial cleanup after bug 186342 and bug 365387
  - \* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
  - \* bug 365859 - [compiler][null]
    - distinguish warnings based on flow analysis vs. null annotations
  - \* bug 385626 - @NonNull fails across loop boundaries
  - \* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  - \* bug 376263 - Bogus "Potential null pointer access" warning
  - \* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  - \* bug 406384 - Internal error with I20130413
  - \* Bug 415413 - [compiler][null] NullPointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
  - \* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
  - \* Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
  - \* Bug 455723 - Nonnull argument not correctly inferred in loop
  - \* Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
  - \* Bug 421035 - [resource]
    - False alarm of resource leak warning when casting a closeable in its assignment
- \* Jesper S Moller - contributions for
  - \* bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

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\* bug 185682 - Increment/decrement operators mark local variables as read

\* bug 186342 - [compiler][null] Using annotations for null checking

\* bug 365519 - editorial cleanup after bug 186342 and bug 365387

\* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK

\* bug 345305 - [compiler][null]

Compiler misidentifies a case of "variable can only be null"

\* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field

\* Bug 458396 - NPE in CodeStream.invoke()

\* Jesper S Moller - Contributions for

\* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

\* bug 331649 - [compiler][null] consider null annotations for fields

\* bug 383368 - [compiler][null] syntactic null analysis for field references

\* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

\* Jesper S Moller <jesper@selskabet.org> - Contributions for  
\* bug 378674 - "The method can be declared as static" is wrong  
\*\*\*\*\*/

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## 1.305 error\_prone\_annotations 2.18.0

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Found in path(s):

\* /error-prone-annotations-2-18-0-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

## 1.306 jetty-annotations 9.4.57.v20241219

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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  
org.ow2.asm:asm

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

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

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org.apache.tomcat:tomcat-jasper-el  
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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\*/

Found in path(s):

- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTPTokener.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONObject.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CDL.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONArray.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XMLTokener.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/XML.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/Cookie.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/HTTP.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONTokener.java
- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/CookieList.java

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

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- \* /json-20070829-sources-jar-zip/json-20070829-sources-jar/org/json/JSONWriter.java

# 1.308 system.net.http 4.8.3761

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# 1.309 tomcat 9.0.111

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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
- web-common\_4\_0.xsd
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- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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 * @created: Apr 24, 2009
 *
 * Description: A class to decode PEM files
 *
 ****/
```

Found

in path(s):

\* /oauth-20100527-sources-jar/net/oauth/signature/pem/PEMReader.java

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```

Found in path(s):

```

* /oauth-20100527-sources-jar/net/oauth/OAuthConsumer.java
* /oauth-20100527-sources-jar/net/oauth/signature/HMAC_SHA1.java
* /oauth-20100527-sources-jar/net/oauth/signature/PLAINTEXT.java
* /oauth-20100527-sources-jar/net/oauth/ConsumerProperties.java
* /oauth-20100527-sources-jar/net/oauth/OAuth.java
* /oauth-20100527-sources-jar/net/oauth/signature/OAuthSignatureMethod.java
*

```

```

/oauth-20100527-sources-jar/net/oauth/OAuthProblemException.java

```

```

* /oauth-20100527-sources-jar/net/oauth/OAuthAccessor.java
* /oauth-20100527-sources-jar/net/oauth/OAuthServiceServiceProvider.java

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```

Found in path(s):

```

* /oauth-20100527-sources-jar/net/oauth/OAuthException.java

```

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*
* @author: zhang
* @version: $Revision$
* @created: Apr 24, 2009
*
* Description: A KeySpec for PKCS#1 encoded RSA private key
*
*****/

```

Found  
in path(s):  
\* /oauth-20100527-sources-jar/net/oauth/signature/pem/PKCS1EncodedKeySpec.java

# 1.312 gmbal-api-only 3.1.0-b001

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```
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* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/SkipPageException.java
*
/tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagLibraryInfo.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/BodyContent.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/BodyTagSupport.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/PageData.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/FunctionMapper.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/IterationTag.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/ExpressionEvaluator.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/FunctionInfo.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/ELException.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspApplicationContext.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/ELParseException.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspContext.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagLibraryValidator.java
*
/tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagInfo.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/JspTag.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/JspFragment.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspException.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/SimpleTagSupport.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/VariableInfo.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/Tag.java
```



```

* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagData.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspWriter.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/ErrorMessage.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagFileInfo.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/DynamicAttributes.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspEngineInfo.java
*
/tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/ImplicitObjectELResolver.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/VariableResolver.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/ScopedAttributeELResolver.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TryCatchFinally.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/HttpJspPage.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagAdapter.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/el/Expression.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagSupport.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/PageContext.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspPage.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspTagException.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/BodyTag.java
*
/tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagExtraInfo.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/JspFactory.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/ValidationMessage.java
* /tomcat-jsp-api-9-0-98-sources-jar/javax/servlet/jsp/tagext/TagAttributeInfo.java
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## 1.314 jakarta-annotation-api 2.1.1

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# 1.315 jspglassfish 9.1.1.B60.25.p2

## 1.315.1 Available under license :

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```

Found in path(s):

```
* /jsp-2-1-glassfish-9-1-1-b60-25-p2-jar/org/apache/taglibs/standard/resources/Resources.properties
* /jsp-2-1-glassfish-9-1-1-b60-25-p2-jar/org/apache/taglibs/standard/resources/Resources_ja.properties
*
/jsp-2-1-glassfish-9-1-1-b60-25-p2-jar/org/apache/taglibs/standard/lang/jstl/Resources_ja.properties
* /jsp-2-1-glassfish-9-1-1-b60-25-p2-jar/org/apache/jasper/resources/messages.properties
* /jsp-2-1-glassfish-9-1-1-b60-25-p2-jar/org/apache/taglibs/standard/lang/jstl/Resources.properties
```

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Manifest-Version: 1.0

Archiver-Version: Plexus Archiver

Created-By: 1.5.0\_19 (Sun Microsystems Inc.)

Built-By: janb

Build-Jdk: 1.5.0\_19

Bundle-License: <https://glassfish.dev.java.net/public/CDDLv1.0.html>

Import-Package: com.sun.org.apache.xalan.internal.res,com.sun.org.apac  
he.xml.internal.utils,com.sun.org.apache.xpath.internal,com.sun.org.a  
pache.xpath.internal.jaxp,com.sun.org.apache.xpath.internal.objects,j  
avax.el;version="2.1",javax.naming,javax.servlet,javax.servlet.http,j  
avax.servlet.jsp;version="2.1",javax.servlet.jsp.el;version="2.1",jav  
ax.servlet.jsp.jstl.core;version="2.1",javax.servlet.jsp.jstl.fmt;ver  
sion="2.1",javax.servlet.jsp.jstl.sql;version="2.1",javax.servlet.jsp  
.tagext;version="2.1",javax.sql,javax.xml.namespace,javax.xml.parsers  
,javax.xml.transform,javax.xml.transform.dom,javax.xml.transform.sax,  
javax.xml.transform.stream,javax.xml.validation,javax.xml.xpath,org.a  
pache.taglibs.standard;version="9.1",org.apache.taglibs.standard.extr

a.spath;version="9.1",org.apache.taglibs.standard.functions;version="9.1",org.apache.taglibs.standard.lang.jstl;version="9.1",org.apache.taglibs.standard.lang.jstl.parser;version="9.1",org.apache.taglibs.standard.lang.jstl.test;version="9.1",org.apache.taglibs.standard.lang.jstl.test.beans;version="9.1",org.apache.taglibs.standard.lang.support;version="9.1",org.apache.taglibs.standard.resources;version="9.1",org.apache.taglibs.standard.tag.common.core;version="9.1",org.apache.taglibs.standard.tag.common.fmt;version="9.1",org.apache.taglibs.standard.tag.common.sql;version="9.1",org.apache.taglibs.standard.tag.common.xml;version="9.1",org.apache.taglibs.standard.tag.el.core;version="9.1",org.apache.taglibs.standard.tag.el.fmt;version="9.1",org.apache.taglibs.standard.tag.el.sql;version="9.1",org.apache.taglibs.standard.tag.el.xml;version="9.1",org.apache.taglibs.standard.tag.rt.core;version="9.1",org.apache.taglibs.standard.tag.rt.fmt;version="9.1",org.apache.taglibs.standard.tag.rt.sql;version="9.1",org.apache.taglibs.standard.tag.rt.xml;version="9.1",org.apache.taglibs.standard.tei;version="9.1",org.apache.taglibs.standard.tlv;version="9.1",org.apache.tools.ant,org.apache.tools.ant.taskdefs,org.apache.tools.ant.types,org.eclipse.jdt.core.compiler,org.eclipse.jdt.internal.compiler,org.eclipse.jdt.internal.compiler.classfmt,org.eclipse.jdt.internal.compiler.env,org.eclipse.jdt.internal.compiler.problem,org.w3c.dom,org.w3c.dom.ls,org.w3c.dom.traversal,org.xml.sax,org.xml.sax.ext,org.xml.sax.helpers,sun.misc

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Bnd-LastModified: 1251359622432

Export-Package: com.sun.appserv;uses:="sun.misc,com.sun.common.util.logging,javax.servlet.http";version="9.1.1.B6025p2",com.sun.appserv.server.util;uses:="com.sun.common.util.logging,com.sun.appserv";version="9.1.1.B6025p2",com.sun.appserv.util.cache;uses:="com.sun.common.util.logging";version="9.1.1.B6025p2",com.sun.appserv.util.cache.mbeans;uses:="com.sun.appserv.util.cache";version="9.1.1.B6025p2",com.sun.common.util.logging;version="9.1.1.B6025p2",com.sun.el;uses:="com.sun.el.util,com.sun.el.lang,javax.el,com.sun.el.parser";version="9.1.1.B6025p2",com.sun.el.lang;uses:="com.sun.el.util,javax.el,com.sun.el,com.sun.el.parser";version="9.1.1.B6025p2",com.sun.el.parser;uses:="com.sun.el.lang,javax.el,com.sun.el.util";version="9.1.1.B6025p2",com.sun.el.util;uses:="com.sun.el.lang,javax.el";version="9.1.1.B6025p2",com.sun.enterprise.web.io;version="9.1.1.B6025p2",com.sun.org.apache.commons.logging;uses:="com.sun.org.apache.commons.logging.impl";version="9.1.1.B6025p2",com.sun.org.apache.commons.logging.impl;uses:="com.sun.org.apache.commons.logging";version="9.1.1.B6025p2",org.apache.jasper;uses:="javax.servlet,org.apache.jasper.compiler,com.sun.org.apache.commons.logging,org.apache.tools.ant,com.sun.appserv,org.apache.jasper.xmlparser,org.apache.jasper.servlet,javax.servlet.jsp.tagext";version="9.1.1.B6025p2",org.apache.jasper.compiler;uses:="org.apache.tools.ant,org.apache.tools.ant.taskdefs,org.apache.jasper.util,org.apache.jasper,org.apache.tools.ant.types,com.sun.org.apache.commons.logging.impl,com.sun.org.apache.commons.logging,javax.servlet.jsp.tagext,org.a

apache.jasper.servlet.org.xml.sax,org.apache.jasper.runtime,javax.el,org.apache.jasper.xmlparser,org.eclipse.jdt.internal.compiler.env,org.eclipse.jdt.internal.compiler.classfmt,org.eclipse.jdt.core.compiler,org.eclipse.jdt.internal.compiler,org.eclipse.jdt.internal.compiler.problem,javax.servlet.org.xml.sax.ext,org.xml.sax.helpers,javax.xml.parsers,javax.servlet.jsp,org.apache.jasper.security,org.apache.jasper.compiler.tagplugin";version="9.1.1.B6025p2",org.apache.jasper.compiler.tagplugin;version="9.1.1.B6025p2",org.apache.jasper.resources;version="9.1.1.B6025p2",org.apache.jasper.runtime;uses="javax.servlet,javax.servlet.jsp.tagext,javax.servlet.jsp,javax.el,javax.servlet.jsp.el,javax.servlet.http,org.apache.jasper.compiler,org.apache.jasper,com.sun.org.apache.commons.logging,com.sun.enterprise.web.io,org.apache.jasper.security";version="9.1.1.B6025p2",org.apache.jasper.security;uses="com.sun.org.apache.commons.logging,org.apache.jasper";version="9.1.1.B6025p2",org.apache.jasper.servlet;uses="org.apache.jasper.security,com.sun.appserv.server.util,javax.servlet,org.apache.jasper,javax.servlet.http,org.apache.jasper.runtime,org.apache.jasper.compiler,com.sun.org.apache.commons.logging,javax.servlet.jsp.tagext";version="9.1.1.B6025p2",org.apache.jasper.tagplugins.jstl;uses="org.apache.jasper.compiler.tagplugin";version="9.1.1.B6025p2",org.apache.jasper.util;version="9.1.1.B6025p2",org.apache.jasper.xmlparser;uses="org.apache.jasper.compiler,org.xml.sax,com.sun.org.apache.commons.logging,org.w3c.dom.ls,org.w3c.dom,javax.xml.transform,org.apache.jasper,javax.xml.transform.dom,javax.xml.validation,javax.xml.parsers,javax.xml.transform.stream";version="9.1.1.B6025p2",org.apache.taglibs.standard;version="9.1.1.B6025p2",org.apache.taglibs.standard.extra.spath;uses="org.xml.sax,org.xml.sax.helpers,javax.servlet.jsp.tagext,javax.servlet.jsp";version="9.1.1.B6025p2",org.apache.taglibs.standard.functions;uses="org.apache.taglibs.standard.tag.common.core,org.apache.taglibs.standard.resources,javax.servlet.jsp";version="9.1.1.B6025p2",org.apache.taglibs.standard.lang.jstl;uses="org.apache.taglibs.standard.lang.jstl.parser,javax.servlet.jsp.tagext,org.apache.taglibs.standard.lang.support,javax.servlet.jsp,javax.servlet.http,javax.servlet";version="9.1.1.B6025p2",org.apache.taglibs.standard.lang.jstl.parser;uses="org.apache.taglibs.standard.lang.jstl";version="9.1.1.B6025p2",org.apache.taglibs.standard.lang.jstl.test;uses="org.apache.taglibs.standard.lang.jstl.test.beans,javax.servlet.jsp.tagext,org.apache.taglibs.standard.lang.jstl,javax.servlet.jsp,javax.servlet.http,javax.servlet.jsp.el,javax.el";version="9.1.1.B6025p2",org.apache.taglibs.standard.lang.jstl.test.beans;version="9.1.1.B6025p2",org.apache.taglibs.standard.lang.support;uses="javax.servlet.jsp.tagext,javax.servlet.jsp,org.apache.taglibs.standard.lang.jstl";version="9.1.1.B6025p2",org.apache.taglibs.standard.resources;version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.common.core;uses="javax.servlet.jsp.tagext,javax.servlet.jsp,org.apache.taglibs.standard.resources,javax.servlet.jsp.jstl.core,javax.el,javax.servlet,javax.servlet.http";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.common.fmt;uses="javax.servlet.http,javax.servlet.jsp.jstl.core,org.apache.taglibs.

standard.tag.common.core,javax.servlet,javax.servlet.jsp,jstl.fmt,javax.servlet.jsp.tagext,javax.servlet.jsp,org.apache.taglibs.standard.resources";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.common.sql;uses="javax.servlet.jsp,jstl.core,javax.naming,org.apache.taglibs.standard.resources,javax.servlet.jsp,javax.sql,javax.servlet.jsp.tagext,javax.servlet.jsp,jstl.sql,javax.servlet,org.apache.taglibs.standard.tag.common.core";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.common.xml;uses="org.apache.taglibs.standard.tag.common.core,javax.servlet.jsp.tagext,org.w3c.dom,javax.servlet.jsp,javax.servlet.jsp,jstl.core,org.apache.taglibs.standard.resources,javax.xml.namespace,com.sun.org.apache.xpath.internal.jaxp,javax.xml.xpath,com.sun.org.apache.xalan.internal.res,org.xml.sax,com.sun.org.apache.xpath.internal.objects,javax.xml.transform,org.w3c.dom.traversal,com.sun.org.apache.xml.internal.utils,javax.xml.parsers,com.sun.org.apache.xpath.internal,javax.servlet.http,javax.servlet,javax.xml.transform.dom,javax.xml.transform.sax,org.xml.sax.helpers,javax.xml.transform.stream";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.el.core;uses="org.apache.taglibs.standard.tag.common.core,javax.servlet.jsp.tagext,org.apache.taglibs.standard.lang.support,javax.servlet.jsp,javax.servlet.jsp,jstl.core";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.el.fmt;uses="javax.servlet.jsp.tagext,org.apache.taglibs.standard.lang.support,org.apache.taglibs.standard.tag.common.fmt,javax.servlet.jsp,javax.servlet.jsp,jstl.fmt";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.el.sql;uses="javax.servlet.jsp.tagext,org.apache.taglibs.standard.lang.support,org.apache.taglibs.standard.tag.common.sql,javax.servlet.jsp";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.el.xml;uses="org.apache.taglibs.standard.tag.common.xml,javax.servlet.jsp.tagext,org.apache.taglibs.standard.tag.el.core,javax.servlet.jsp,org.apache.taglibs.standard.tag.common.core,org.xml.sax,javax.xml.transform";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.rt.core;uses="org.apache.taglibs.standard.tag.common.core,javax.servlet.jsp,jstl.core,javax.servlet.jsp.tagext,javax.servlet.jsp";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.rt.fmt;uses="org.apache.taglibs.standard.tag.common.fmt,javax.servlet.jsp,javax.servlet.jsp,jstl.fmt";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.rt.sql;uses="org.apache.taglibs.standard.tag.common.sql,javax.servlet.jsp";version="9.1.1.B6025p2",org.apache.taglibs.standard.tag.rt.xml;uses="org.apache.taglibs.standard.tag.common.xml,javax.servlet.jsp,org.xml.sax,javax.xml.transform";version="9.1.1.B6025p2",org.apache.taglibs.standard.tei;uses="javax.servlet.jsp.tagext";version="9.1.1.B6025p2",org.apache.taglibs.standard.tlv;uses="org.xml.sax,org.apache.taglibs.standard.resources,javax.servlet.jsp.tagext,org.xml.sax.helpers,javax.xml.parsers,org.apache.taglibs.standard.lang.support,javax.servlet.jsp";version="9.1.1.B6025p2"

Bundle-Version: 9.1.1.B6025p2

Ignore-Package: com.sun.el,org.apache.jasper.tagplugins.jstl,com.sun.el.lang,org.apache.jasper.resources,org.apache.jasper.util,com.sun.ent

erprise.web.io,com.sun.org.apache.commons.logging.impl,com.sun.appserv.util.cache,com.sun.el.parser,com.sun.org.apache.commons.logging,org.apache.jasper,com.sun.el.util,org.apache.jasper.runtime,com.sun.common.util.logging,org.apache.jasper.compiler.tagplugin,org.apache.jasper.security,com.sun.appserv.util.cache.mbeans,org.apache.jasper.xmlparser,com.sun.appserv,org.apache.jasper.compiler,com.sun.appserv.server.util,org.apache.jasper.servlet

Bundle-Name: Glassfish :: Jasper JSP 2.1

Bundle-Description: JSP2.1 Jasper implementation from Glassfish

Bundle-DocURL: <http://www.mortbay.com>

Originally-Created-By: 1.5.0\_19 (Sun Microsystems Inc.)

Bundle-Vendor: Mort Bay Consulting

Bundle-ManifestVersion: 2

Bundle-SymbolicName: org.mortbay.jetty.jsp-2.1-glassfish

Tool: Bnd-0.0.311

Found in path(s):

\* /jsp-2-1-glassfish-9-1-1-b60-25-p2-jar/META-INF/MANIFEST.MF

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Found in path(s):

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\* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/AutoreleasePool.java  
\* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/WeakOuter.java  
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\* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ReflectionSupport.java  
\* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedLocalRef.java  
\* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/Property.java  
\* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/LoopTranslation.java  
\*  
/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java  
\* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ObjectiveCName.java

# 1.317 tomcat-i18n-de 9.0.98

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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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- web-app\_3\_0.xsd
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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
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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```
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
* /snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.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: www.
 * source-code.biz/base64coder/java

 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland

 * Multi-licensed: EPL / LGPL / GPL / AL / BSD.
 */
```

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 \*/

Found in path(s):

\* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Parser.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java  
 \*  
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Construct.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java  
 \*  
 /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/Property.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Production.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/DumperOptions.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java  
 \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Represent.java  
 \*



```

/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Node.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
*
/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
*
/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLEnvironmentException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
*
/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedPrefixesTagInspector.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/Mark.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java

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- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/TypeDescription.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
- \*
- /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/Token.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
- \*
- /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/Composer.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/internal/Logger.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
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- /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
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- \* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
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# 1.320 json-simple 1.1

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# 1.321 presentationframework 4.8.3761

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## 1.325 jackson-dataformat-yaml 2.15.0

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# Jackson JSON processor

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Manifest-Version: 1.0

Created-By: Maven JAR Plugin 3.3.0

Build-Jdk-Spec: 11

Automatic-Module-Name: io.swagger.core

implementation-version: 1.6.11

mode: development

package: io.swagger

url: <https://github.com/swagger-api/swagger-core/modules/swagger-core>

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-Developers: fehguy;email="fehguy@gmail.com";name="Tony Tam"

Bundle-DocURL: <https://github.com/swagger-api/swagger-core/modules/swagger-core>

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Bundle-ManifestVersion: 2

Bundle-Name: swagger-core

Bundle-SCM: url="https://github.com/swagger-api/swagger-core/modules/swagger-core",connection="scm:git:git@github.com:swagger-api/swagger-core.git/modules/swagger-core",developer-connection="scm:git:git@github.com:swagger-api/swagger-core.git/modules/swagger-core",tag=HEAD

Bundle-SymbolicName:

io.swagger.swagger-core

Bundle-Version: 1.6.11

Export-Package: io.swagger.converter;version="1.6.11";uses="com.fasterxml.jackson.annotation,io.swagger.models,io.swagger.models.properties",io.swagger.core.filter;version="1.6.11";uses="io.swagger.model,io.swagger.models,io.swagger.models.parameters,io.swagger.models.properties",io.swagger.config;version="1.6.11";uses="io.swagger.core.filter,io.swagger.models",io.swagger.model;version="1.6.11";uses="io.swagger.models",

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Require-Capability:

osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"

Found in path(s):

\* /swagger-core-1-6-11-2-jar/META-INF/MANIFEST.MF

## 1.327 commons-codec 1.15

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Found in path(s):

- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/callback/CertStoreCallback.java
- \*
- /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/ClientAuthContext.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/AuthConfig.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/MessagePolicy.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/MessageInfo.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/ClientAuth.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/AuthConfigProvider.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/ServerAuthContext.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/module/ClientAuthModule.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/ClientAuthConfig.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/module/ServerAuthModule.java
- \*
- /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/AuthException.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/callback/TrustStoreCallback.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/ServerAuth.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/ServerAuthConfig.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/RegistrationListener.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/config/AuthConfigFactory.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/AuthStatus.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
- \* /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/callback/PrivateKeyCallback.java
- \*
- /tomcat-jaspic-api-9-0-80-sources-jar/javax/security/auth/message/callback/SecretKeyCallback.java

## 1.332 ant-launcher 1.10.15

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\*/

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\* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPHeader.java

\* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPInputStream.java

```
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Inflater.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/DeflaterOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZInputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/JZlib.java
*
```

```
/jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InflaterInputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPException.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/CRC32.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfBlocks.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Checksum.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Deflater.java
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```

```
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```

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```
*/
```

Found in path(s):

```
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Deflate.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Inflate.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZStream.java
```



\* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Adler32.java

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- \* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfCodes.java
- \* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Tree.java
- \* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZStreamException.java
- \* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/StaticTree.java
- \* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfTree.java

## 1.336 xerces-j 2.7.1

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## 4.8.3761

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```
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* /oauth-httpclient4-20090913-sources-jar/net/oauth/client/httpclient4/HttpClient4.java
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\* /oauth-httpclient4-20090913-sources-jar/net/oauth/client/httpclient4/OAuthCredentials.java  
\* /oauth-httpclient4-20090913-sources-jar/net/oauth/client/httpclient4/OAuthSchemeFactory.java  
\* /oauth-httpclient4-20090913-sources-jar/net/oauth/client/httpclient4/OAuthScheme.java

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## 1.341 epp.presentationcore 4.8.3928

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```

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* /guava-31-1-jre-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/PeekingIterator.java
*
/guava-31-1-jre-sources-jar/com/google/common/collect/Tables.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Serialization.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Platform.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
```

```

* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableCollection.java
* /guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapValues.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/Range.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/HashBasedTable.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMapEntry.java
* /guava-31-1-jre-sources-jar/com/google/common/io/MoreFiles.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/MultimapBuilder.java
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 \* /guava-31-1-jre-sources-jar/com/google/common/math/ToDoubleRounded.java  
 \* /guava-31-1-jre-sources-jar/com/google/common/io/Java8Compatibility.java  
 \*  
 /guava-31-1-jre-sources-jar/com/google/common/math/BigDecimalMath.java  
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 \* /guava-31-1-jre-sources-jar/com/google/common/collect/LexicographicalOrdering.java  
 \* /guava-31-1-jre-sources-jar/com/google/common/collect/EnumHashBiMap.java  
 \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractListMultimap.java  
 \*  
 /guava-31-1-jre-sources-jar/com/google/common/collect/NaturalOrdering.java  
 \* /guava-31-1-jre-sources-jar/com/google/common/collect/Interner.java  
 \* /guava-31-1-jre-sources-jar/com/google/common/collect/package-info.java  
 \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMultiset.java

- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Multiset.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMapEntry.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/TreeMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/SetMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/CompoundOrdering.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ClassToInstanceMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/UsingToStringOrdering.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/LinkedHashMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Lists.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/NullsLastOrdering.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedSetMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Iterators.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Sets.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Multimaps.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ReverseOrdering.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ComparatorOrdering.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMapEntry.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Multisets.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Maps.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMultiset.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Iterables.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Synchronized.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableList.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSetMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/HashMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Ordering.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/EnumBiMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/MapDifference.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/Multimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/NullsFirstOrdering.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/BiMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractIterator.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java

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* /guava-31-1-jre-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingCollection.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractBiMap.java
*
/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingObject.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ListMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ExplicitOrdering.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/LinkedHashMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingList.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/LinkedListMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ArrayListMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/HashMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSet.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingQueue.java
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* /guava-31-1-jre-sources-jar/com/google/common/math/Quantiles.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
*
/guava-31-1-jre-sources-jar/com/google/common/eventbus/Subscriber.java
* /guava-31-1-jre-sources-jar/com/google/common/base/MoreObjects.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
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- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/RangeMap.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableAsList.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/EvictingQueue.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/TreeTraverser.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/CompactHashSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingDeque.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/AllEqualOrdering.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableList.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/CompactHashMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/TreeRangeMap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/DescendingMultiset.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredMultimap.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/collect/TransformedIterator.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/TransformedListIterator.java  
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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */
```

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\* /guava-31-1-jre-sources-jar/com/google/common/cache/Striped64.java  
\* /guava-31-1-jre-sources-jar/com/google/common/cache/LongAdder.java  
\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java



\* /guava-31-1-jre-sources-jar/com/google/common/hash/Striped64.java  
\* /guava-31-1-jre-sources-jar/com/google/common/hash/LongAdder.java

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\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMap.java

\*

/guava-31-1-jre-sources-jar/com/google/common/collect/TableCollectors.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableList.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableList.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ArrayTable.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableEnumSet.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/DiscreteDomain.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingTable.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ComputationException.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/SingletonImmutableTable.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableAsList.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java

\*

/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableTable.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSetMultimap.java

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- \* /guava-31-1-jre-sources-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/base/ElementTypesAreNonnullByDefault.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/cache/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/primitives/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/net/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/math/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/xml/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/escape/ParametricNullness.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/io/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/html/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/reflect/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/base/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/eventbus/ParametricNullness.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/ParametricNullness.java

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\* /guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMultiset.java

\* /guava-31-1-jre-sources-jar/com/google/common/hash/ImmutableSupplier.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java

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* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/MoreExecutors.java
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```

* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Comparators.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java
*
/guava-31-1-jre-sources-jar/com/google/common/graph/NetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/GraphConstants.java

```

```

* /guava-31-1-jre-sources-jar/com/google/common/graph/ElementOrder.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardMutableGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
*
/guava-31-1-jre-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MutableValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/GraphConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/NetworkBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/EndpointPair.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/StandardNetwork.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractValueGraph.java
*
/guava-31-1-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MapIteratorCache.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/AbstractNetwork.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/CollectCollectors.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/MoreCollectors.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/GraphBuilder.java
* /guava-31-1-jre-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
*
/guava-31-1-jre-sources-jar/com/google/common/graph/ForwardingGraph.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/EdgesConnecting.java
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/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
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*/

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* /guava-31-1-jre-sources-jar/com/google/common/primitives/DoublesMethodsForWeb.java
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* /guava-31-1-jre-sources-jar/com/google/common/collect/Queues.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Optional.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularContiguousSet.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/ParseRequest.java
*
* /guava-31-1-jre-sources-jar/com/google/common/cache/LoadingCache.java
* /guava-31-1-jre-sources-jar/com/google/common/net/HttpHeaders.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Enums.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /guava-31-1-jre-sources-jar/com/google/common/math/LongMath.java

```

- \* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalListener.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
- \* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedInts.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalCause.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/base/Ticker.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/Hasher.java
- \* /guava-31-1-jre-sources-jar/com/google/common/base/PairwiseEquivalence.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
- \* /guava-31-1-jre-sources-jar/com/google/common/math/DoubleMath.java
- \* /guava-31-1-jre-sources-jar/com/google/common/reflect/Types.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java
- \* /guava-31-1-jre-sources-jar/com/google/common/math/IntMath.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/BoundType.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/Funnel.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/BloomFilter.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/math/BigIntegerMath.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/EmptyContiguousSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/AbstractLoadingCache.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/TreeRangeSet.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/CacheLoader.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/Murmur3\_32HashFunction.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
- \* /guava-31-1-jre-sources-jar/com/google/common/math/package-info.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/cache/CacheStats.java
- \* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedInteger.java
- \* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedLong.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/HashFunction.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/Weigher.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
- \* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractStreamingHasher.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/AbstractCache.java
- \* /guava-31-1-jre-sources-jar/com/google/common/net/MediaType.java
- \* /guava-31-1-jre-sources-jar/com/google/common/cache/Cache.java
- \* /guava-31-1-jre-sources-jar/com/google/common/base/Present.java
- \* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java
- \* /guava-31-1-jre-sources-jar/com/google/common/base/FunctionalEquivalence.java
- \*

```

/guava-31-1-jre-sources-jar/com/google/common/math/MathPreconditions.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/HashCode.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/ForwardingCache.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Absent.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Funnels.java
* /guava-31-1-jre-sources-jar/com/google/common/net/HostAndPort.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalListeners.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/PrimitiveSink.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeParameter.java
*
/guava-31-1-jre-sources-jar/com/google/common/hash/AbstractHasher.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/math/DoubleUtils.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/HashingOutputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/RemovalNotification.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/Hashing.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/package-info.java
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- \* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
- \* /guava-31-1-jre-sources-jar/com/google/common/graph/package-info.java
- \* /guava-31-1-jre-sources-jar/com/google/common/collect/CollectSpliterators.java

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 */

/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
 * wouldn't recognize
 * it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
 * compiler to autostrip the normal server method in order to expose the special, inherited GWT
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 */
```

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- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Partially.java

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 */
/**
 * Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
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* /guava-31-1-jre-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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```

* /guava-31-1-jre-sources-jar/com/google/common/graph/Graph.java
* /guava-31-1-jre-sources-jar/com/google/common/io/RecursiveDeleteOption.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/Network.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableNetwork.java
*
* /guava-31-1-jre-sources-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /guava-31-1-jre-sources-jar/com/google/common/graph/MutableGraph.java

```

\* /guava-31-1-jre-sources-jar/com/google/common/graph/ImmutableGraph.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/TopKSelector.java  
\* /guava-31-1-jre-sources-jar/com/google/common/graph/Graphs.java  
\* /guava-31-1-jre-sources-jar/com/google/common/graph/MutableNetwork.java  
\* /guava-31-1-jre-sources-jar/com/google/common/graph/SuccessorsFunction.java  
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\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/GwtTransient.java  
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\* and released to the public domain, as explained at  
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\*  
\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's

```
* java.util.HashMap
class.
*/
```

Found in path(s):

```
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Striped.java
```

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*/
```

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* /guava-31-1-jre-sources-jar/com/google/common/graph/IncidentEdgeSet.java
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```
* /guava-31-1-jre-sources-jar/com/google/common/collect/CompactHashing.java
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```
*/
```

```
/**
```

```
* Holder for web specializations of methods of {@code Ints}. Intended to be empty for regular
```

```
* version.
```

```
*/
```

Found in path(s):

\* /guava-31-1-jre-sources-jar/com/google/common/primitives/IntsMethodsForWeb.java

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Found in path(s):

\* /guava-31-1-jre-sources-jar/com/google/common/cache/ReferenceEntry.java

\* /guava-31-1-jre-sources-jar/com/google/common/io/ByteProcessor.java

\* /guava-31-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java

\* /guava-31-1-jre-sources-jar/com/google/common/xml/XmlEscapers.java

\* /guava-31-1-jre-sources-jar/com/google/common/io/LineProcessor.java

\*

/guava-31-1-jre-sources-jar/com/google/common/collect/DenseImmutableTable.java

\* /guava-31-1-jre-sources-jar/com/google/common/cache/LocalCache.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java

\* /guava-31-1-jre-sources-jar/com/google/common/escape/Escapers.java

\* /guava-31-1-jre-sources-jar/com/google/common/annotations/GwtIncompatible.java

\* /guava-31-1-jre-sources-jar/com/google/common/escape/Platform.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java

\* /guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedBytes.java

\* /guava-31-1-jre-sources-jar/com/google/common/net/HostSpecifier.java

\* /guava-31-1-jre-sources-jar/com/google/common/net/InternetDomainName.java

\* /guava-31-1-jre-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java

\* /guava-31-1-jre-sources-jar/com/google/common/base/Splitter.java

\* /guava-31-1-jre-sources-jar/com/google/common/net/UrlEscapers.java

\*

/guava-31-1-jre-sources-jar/com/google/common/base/Platform.java

\* /guava-31-1-jre-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/MapMaker.java

\* /guava-31-1-jre-sources-jar/com/google/common/html/HtmlEscapers.java

\* /guava-31-1-jre-sources-jar/com/google/common/io/ByteArrayDataInput.java

\* /guava-31-1-jre-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/MapMakerInternalMap.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Callables.java

```

* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeResolver.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Service.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SettableFuture.java
*
/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Cut.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /guava-31-1-jre-sources-jar/com/google/common/annotations/GwtCompatible.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/CacheBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/SignedBytes.java
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*/
/**
* Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
* key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated Pass a key of type {@code Comparable}
to use {@link
* ImmutableSortedMap#of(Comparable, Object)}.
*/

```

Found in path(s):

```

* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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```

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\* /guava-31-1-jre-sources-jar/com/google/common/base/PatternCompiler.java

\* /guava-31-1-jre-sources-jar/com/google/common/base/JdkPattern.java

\* /guava-31-1-jre-sources-jar/com/google/common/base/CommonMatcher.java

\* /guava-31-1-jre-sources-jar/com/google/common/base/CommonPattern.java

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\* /guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

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\* /guava-31-1-jre-sources-jar/com/google/common/hash/Fingerprint2011.java

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Found in path(s):

```
*/guava-31-1-jre-sources-jar/com/google/common/graph/Traverser.java
*/guava-31-1-jre-sources-jar/com/google/common/graph/BaseGraph.java
*/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ClosingFuture.java
*/guava-31-1-jre-sources-jar/com/google/common/graph/AbstractBaseGraph.java
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 */
/**
 * Holder for web specializations of methods of {@code Shorts}. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
*/guava-31-1-jre-sources-jar/com/google/common/primitives/ShortsMethodsForWeb.java
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```
* /guava-31-1-jre-sources-jar/com/google/common/hash/MacHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
*
* /guava-31-1-jre-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Platform.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ReaderInputStream.java
```

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```
* /guava-31-1-jre-sources-jar/com/google/common/collect/GeneralRange.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedIterables.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractRangeSet.java
```

\* /guava-31-1-jre-sources-jar/com/google/common/collect/Count.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedIterable.java  
\*  
/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/RangeSet.java  
\* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
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\* /guava-31-1-jre-sources-jar/com/google/common/primitives/Longs.java  
\* /guava-31-1-jre-sources-jar/com/google/common/primitives/Chars.java  
\* /guava-31-1-jre-sources-jar/com/google/common/base/Converter.java  
\* /guava-31-1-jre-sources-jar/com/google/common/net/PercentEscaper.java  
\*  
/guava-31-1-jre-sources-jar/com/google/common/primitives/Bytes.java  
\* /guava-31-1-jre-sources-jar/com/google/common/escape/UnicodeEscaper.java  
\* /guava-31-1-jre-sources-jar/com/google/common/base/Stopwatch.java  
\* /guava-31-1-jre-sources-jar/com/google/common/io/MultiReader.java  
\* /guava-31-1-jre-sources-jar/com/google/common/escape/Escaper.java  
\* /guava-31-1-jre-sources-jar/com/google/common/io/FileBackedOutputStream.java  
\* /guava-31-1-jre-sources-jar/com/google/common/base/CharMatcher.java  
\* /guava-31-1-jre-sources-jar/com/google/common/primitives/Floats.java  
\* /guava-31-1-jre-sources-jar/com/google/common/primitives/Ints.java  
\* /guava-31-1-jre-sources-jar/com/google/common/net/InetAddresses.java  
\* /guava-31-1-jre-sources-jar/com/google/common/base/internal/Finalizer.java  
\* /guava-31-1-jre-sources-jar/com/google/common/primitives/Shorts.java  
\* /guava-31-1-jre-sources-jar/com/google/common/primitives/Booleans.java  
\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java  
\*

/guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /guava-31-1-jre-sources-jar/com/google/common/primitives/Doubles.java  
\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java  
\* /guava-31-1-jre-sources-jar/com/google/common/base/Joiner.java  
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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
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- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
- \* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToken.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Futures.java
- \* /guava-31-1-jre-sources-jar/com/google/common/base/CaseFormat.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java
- \* /guava-31-1-jre-sources-jar/com/google/common/io/AppendableWriter.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
- \* /guava-31-1-jre-sources-jar/com/google/common/annotations/VisibleForTesting.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
- \*
- /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
- \* /guava-31-1-jre-sources-jar/com/google/common/escape/CharEscaper.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FluentFuture.java
- \* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
- \* /guava-31-1-jre-sources-jar/com/google/common/io/PatternFilenameFilter.java

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- \* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedMultisets.java

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* /guava-31-1-jre-sources-jar/com/google/common/base/Function.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/Subscribe.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ByteStreams.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Predicates.java
*
/guava-31-1-jre-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /guava-31-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Supplier.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Preconditions.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Charsets.java
* /guava-31-1-jre-sources-jar/com/google/common/io/LineBuffer.java
* /guava-31-1-jre-sources-jar/com/google/common/io/MultiInputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Functions.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Flushables.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableReference.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /guava-31-1-jre-sources-jar/com/google/common/io/LineReader.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
*
/guava-31-1-jre-sources-jar/com/google/common/collect/EnumMultiset.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/HashBiMap.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Objects.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Throwables.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CharStreams.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CountingOutputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/Interners.java
```

```

* /guava-31-1-jre-sources-jar/com/google/common/base/Predicate.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Closeables.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Resources.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableSoftReference.java
*
/guava-31-1-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /guava-31-1-jre-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Suppliers.java
* /guava-31-1-jre-sources-jar/com/google/common/base/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/DeadEvent.java
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* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/io/Files.java
* /guava-31-1-jre-sources-jar/com/google/common/eventbus/EventBus.java
* /guava-31-1-jre-sources-jar/com/google/common/io/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CountingInputStream.java
*
/guava-31-1-jre-sources-jar/com/google/common/base/Defaults.java
* /guava-31-1-jre-sources-jar/com/google/common/primitives/Primitives.java
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* /guava-31-1-jre-sources-jar/com/google/common/primitives/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/net/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedLists.java
*
/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /guava-31-1-jre-sources-jar/com/google/common/base/Strings.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /guava-31-1-jre-sources-jar/com/google/common/annotations/package-info.java

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\* /guava-31-1-jre-sources-jar/com/google/common/collect/ContiguousSet.java  
\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Atomics.java  
\* /guava-31-1-jre-sources-jar/com/google/common/annotations/Beta.java  
\* /guava-31-1-jre-sources-jar/com/google/common/base/Equivalence.java  
\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Monitor.java  
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\* /guava-31-1-jre-sources-jar/com/google/common/io/CharSequenceReader.java  
\* /guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /guava-31-1-jre-sources-jar/com/google/common/hash/HashingInputStream.java

\*

/guava-31-1-jre-sources-jar/com/google/common/base/Utf8.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

\* /guava-31-1-jre-sources-jar/com/google/common/base/Verify.java

\* /guava-31-1-jre-sources-jar/com/google/common/base/VerifyException.java

\* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeVisitor.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/AbstractTable.java

\* /guava-31-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /guava-31-1-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Runnables.java

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\* /guava-31-1-jre-sources-jar/com/google/common/collect/NullnessCasts.java  
\* /guava-31-1-jre-sources-jar/com/google/common/base/NullnessCasts.java

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\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Internal.java  
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\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java  
\* /guava-31-1-jre-sources-jar/com/google/common/reflect/Invokable.java

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* /guava-31-1-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
*
/guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/Parameter.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ByteSink.java
* /guava-31-1-jre-sources-jar/com/google/common/math/Stats.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/LongAddables.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/LongAddables.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/CartesianList.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CharSink.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/ClassPath.java
* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /guava-31-1-jre-sources-jar/com/google/common/io/BaseEncoding.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/AbstractByteHasher.java
*
/guava-31-1-jre-sources-jar/com/google/common/io/Closer.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /guava-31-1-jre-sources-jar/com/google/common/math/StatsAccumulator.java
* /guava-31-1-jre-sources-jar/com/google/common/math/PairedStats.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/SipHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /guava-31-1-jre-sources-jar/com/google/common/io/ByteSource.java
* /guava-31-1-jre-sources-jar/com/google/common/html/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeCapture.java
* /guava-31-1-jre-sources-jar/com/google/common/xml/package-info.java
* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /guava-31-1-jre-sources-jar/com/google/common/escape/package-info.java
*
/guava-31-1-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /guava-31-1-jre-sources-jar/com/google/common/hash/LongAddable.java
* /guava-31-1-jre-sources-jar/com/google/common/cache/LongAddable.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /guava-31-1-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /guava-31-1-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /guava-31-1-jre-sources-jar/com/google/common/io/CharSource.java
* /guava-31-1-jre-sources-jar/com/google/common/io/FileWriteMode.java
* /guava-31-1-jre-sources-jar/com/google/common/math/LinearTransformation.java
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\* /guava-31-1-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java

\* /guava-31-1-jre-sources-jar/com/google/common/primitives/ImmutableLongArray.java

\* /guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingLock.java

\*

/guava-31-1-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java

\* /guava-31-1-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java

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\* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingSetMultimap.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java

\*

/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractSequentialIterator.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/UnmodifiableListIterator.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingListMultimap.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/SortedMapDifference.java

\* /guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java

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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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 */

```

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`/guava-31-1-jre-sources-jar/com/google/common/collect/Hashing.java`

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```

* /guava-31-1-jre-sources-jar/com/google/common/collect/ImmutableSortedAsList.java

```

## 1.346 bcpkix-fips 2.0.7

### 1.346.1 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):

```

* /bcpkix-fips-2-0-7-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

```

## 1.347 jersey 1.19.4

### 1.347.1 Available under license :

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# 1.348 netty-transport-native-unix-common

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```
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* /asm-commons-9-7-1-sources-1-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /asm-commons-9-7-1-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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```

```
/**
 * Constructs a new {@link GeneratorAdapter}. Subclasses must not use this constructor.
 * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor
 * to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */
```



Found in path(s):

\* /asm-commons-9-7-1-sources-1-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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/**
 * Constructs a new {@link LocalVariablesSorter}. Subclasses must not use this constructor.
 * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted
method.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */
```

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/**
```

```
 * Constructs a new {@link SerialVersionUIDAdder}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a {@link ClassVisitor} to which
this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
```

Found in path(s):

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 * Constructs a new {@link AnnotationRemapper}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #AnnotationRemapper(int,String,AnnotationVisitor,Remapper)}
 * version.
 *
 * @param descriptor the descriptor of the
visited annotation. May be {@literal null}.
 * @param annotationVisitor the annotation visitor this remapper must delegate to.
 * @param remapper the remapper to use to remap the types in the visited annotation.
 */
```

Found in path(s):

\* /asm-commons-9-7-1-sources-1-jar/org/objectweb/asm/commons/AnnotationRemapper.java

# 1.355 spring-context 5.3.39

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# 1.356 hibernate-commons-annotations

## 5.1.2.Final

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- \* /guava-r06-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
- \* /guava-r06-sources-jar/com/google/common/base/Functions.java
- \* /guava-r06-sources-jar/com/google/common/base/Defaults.java
- \* /guava-r06-sources-jar/com/google/common/base/FinalizablePhantomReference.java

\*

- /guava-r06-sources-jar/com/google/common/base/FinalizableReference.java
- \* /guava-r06-sources-jar/com/google/common/base/FinalizableSoftReference.java
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```
/**
 * Wrapper around {@link System#arraycopy} so that it can be emulated
 * correctly in GWT.
 *
 * <p>It is only intended for the case {@code src} and {@code dest} are
 * different. It also doesn't validate the types and indices.
 *
 * <p>As of GWT 2.0, The built-in {@link System#arraycopy} doesn't work
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 * case. See
 * http://code.google.com/p/google-web-toolkit/issues/detail?id=3621
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- \* /guava-r06-sources-jar/com/google/common/io/MultiReader.java

- \* /guava-r06-sources-jar/com/google/common/collect/ImmutableBiMap.java

- \* /guava-r06-sources-jar/com/google/common/collect/ImmutableMap.java

- \* /guava-r06-sources-jar/com/google/common/collect/ImmutableSortedSet.java

\*



```

/guava-r06-sources-jar/com/google/common/collect/RegularImmutableMap.java
* /guava-r06-sources-jar/com/google/common/primitives/Bytes.java
* /guava-r06-sources-jar/com/google/common/primitives/Floats.java
* /guava-r06-sources-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /guava-r06-sources-jar/com/google/common/collect/UnmodifiableIterator.java
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* /guava-r06-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /guava-r06-sources-jar/com/google/common/primitives/Ints.java
* /guava-r06-sources-jar/com/google/common/primitives/Shorts.java
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* /guava-r06-sources-jar/com/google/common/primitives/SignedBytes.java
* /guava-r06-sources-jar/com/google/common/collect/NullOutputException.java
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* /guava-r06-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /guava-r06-sources-jar/com/google/common/collect/ImmutableEnumSet.java
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* /guava-r06-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /guava-r06-sources-jar/com/google/common/util/concurrent/ForwardingService.java
* /guava-r06-sources-jar/com/google/common/io/LineProcessor.java
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/guava-r06-sources-jar/com/google/common/collect/SingletonImmutableList.java
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* /guava-r06-sources-jar/com/google/common/net/HostSpecifier.java
* /guava-r06-sources-jar/com/google/common/primitives/UnsignedBytes.java
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* /guava-r06-sources-jar/com/google/common/base/Service.java
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* /guava-r06-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /guava-r06-sources-jar/com/google/common/collect/AsynchronousComputationException.java
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\* /guava-r06-sources-jar/com/google/common/annotations/package-info.java  
\* /guava-r06-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java  
\* /guava-r06-sources-jar/com/google/common/collect/ComputingConcurrentHashMap.java  
\*

/guava-r06-sources-jar/com/google/common/net/package-info.java  
\* /guava-r06-sources-jar/com/google/common/primitives/package-info.java  
\* /guava-r06-sources-jar/com/google/common/base/Strings.java  
\* /guava-r06-sources-jar/com/google/common/collect/ForwardingListMultimap.java  
\* /guava-r06-sources-jar/com/google/common/annotations/Beta.java  
\* /guava-r06-sources-jar/com/google/common/collect/ForwardingSetMultimap.java

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* /guava-r06-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /guava-r06-sources-jar/com/google/common/collect/NullsFirstOrdering.java
* /guava-r06-sources-jar/com/google/common/collect/RegularImmutableSet.java
* /guava-r06-sources-jar/com/google/common/base/Supplier.java
* /guava-r06-sources-jar/com/google/common/collect/ForwardingMap.java
*
* /guava-r06-sources-jar/com/google/common/collect/ForwardingMultimap.java
* /guava-r06-sources-jar/com/google/common/collect/LinkedListMultimap.java
* /guava-r06-sources-jar/com/google/common/base/Suppliers.java
* /guava-r06-sources-jar/com/google/common/collect/AbstractMultimap.java
* /guava-r06-sources-jar/com/google/common/collect/LinkedHashMultiset.java
* /guava-r06-sources-jar/com/google/common/collect/LexicographicalOrdering.java
* /guava-r06-sources-jar/com/google/common/collect/ObjectArrays.java
* /guava-r06-sources-jar/com/google/common/collect/MapDifference.java
* /guava-r06-sources-jar/com/google/common/base/Throwables.java
* /guava-r06-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /guava-r06-sources-jar/com/google/common/io/LimitInputStream.java
* /guava-r06-sources-jar/com/google/common/collect/NullsLastOrdering.java

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- \* /guava-r06-sources-jar/com/google/common/util/concurrent/MoreExecutors.java
- \* /guava-r06-sources-jar/com/google/common/collect/ClassToInstanceMap.java
- \*
- /guava-r06-sources-jar/com/google/common/collect/Multimap.java
- \* /guava-r06-sources-jar/com/google/common/util/concurrent/AbstractListenableFuture.java
- \* /guava-r06-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
- \* /guava-r06-sources-jar/com/google/common/collect/package-info.java
- \* /guava-r06-sources-jar/com/google/common/io/Resources.java
- \* /guava-r06-sources-jar/com/google/common/io/CharStreams.java
- \* /guava-r06-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
- \* /guava-r06-sources-jar/com/google/common/base/Preconditions.java
- \* /guava-r06-sources-jar/com/google/common/collect/ForwardingMapEntry.java
- \* /guava-r06-sources-jar/com/google/common/collect/TreeMultimap.java
- \* /guava-r06-sources-jar/com/google/common/base/package-info.java
- \* /guava-r06-sources-jar/com/google/common/io/MultiInputStream.java
- \* /guava-r06-sources-jar/com/google/common/collect/HashBiMap.java
- \* /guava-r06-sources-jar/com/google/common/collect/Constraints.java
- \*
- /guava-r06-sources-jar/com/google/common/collect/ListMultimap.java
- \* /guava-r06-sources-jar/com/google/common/collect/ForwardingSortedMap.java
- \* /guava-r06-sources-jar/com/google/common/collect/EnumMultiset.java
- \* /guava-r06-sources-jar/com/google/common/io/InputSupplier.java
- \* /guava-r06-sources-jar/com/google/common/collect/Interner.java
- \* /guava-r06-sources-jar/com/google/common/collect/ForwardingCollection.java
- \* /guava-r06-sources-jar/com/google/common/collect/HashMultimap.java
- \* /guava-r06-sources-jar/com/google/common/collect/EmptyImmutableSet.java
- \* /guava-r06-sources-jar/com/google/common/collect/ForwardingMultiset.java
- \* /guava-r06-sources-jar/com/google/common/collect/Ordering.java
- \* /guava-r06-sources-jar/com/google/common/collect/ForwardingListIterator.java
- \* /guava-r06-sources-jar/com/google/common/collect/ForwardingObject.java
- \* /guava-r06-sources-jar/com/google/common/collect/AbstractMapEntry.java
- \* /guava-r06-sources-jar/com/google/common/collect/TreeMultiset.java
- \*
- /guava-r06-sources-jar/com/google/common/collect/Synchronized.java
- \* /guava-r06-sources-jar/com/google/common/collect/AbstractIterator.java
- \* /guava-r06-sources-jar/com/google/common/collect/ExplicitOrdering.java
- \* /guava-r06-sources-jar/com/google/common/collect/Interners.java
- \* /guava-r06-sources-jar/com/google/common/io/LineBuffer.java
- \* /guava-r06-sources-jar/com/google/common/io/OutputSupplier.java
- \* /guava-r06-sources-jar/com/google/common/io/Files.java
- \* /guava-r06-sources-jar/com/google/common/collect/BiMap.java
- \* /guava-r06-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java
- \* /guava-r06-sources-jar/com/google/common/util/concurrent/ExecutionList.java
- \* /guava-r06-sources-jar/com/google/common/io/LineReader.java
- \* /guava-r06-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
- \* /guava-r06-sources-jar/com/google/common/collect/ImmutableSet.java
- \* /guava-r06-sources-jar/com/google/common/collect/AbstractBiMap.java
- \*



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/guava-r06-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /guava-r06-sources-jar/com/google/common/collect/SortedSetMultimap.java
* /guava-r06-sources-jar/com/google/common/collect/CompoundOrdering.java
* /guava-r06-sources-jar/com/google/common/collect/ForwardingList.java
* /guava-r06-sources-jar/com/google/common/collect/ReverseOrdering.java
* /guava-r06-sources-jar/com/google/common/collect/AbstractListMultimap.java
* /guava-r06-sources-jar/com/google/common/io/Flushables.java
* /guava-r06-sources-jar/com/google/common/collect/EmptyImmutableList.java
* /guava-r06-sources-jar/com/google/common/base/Objects.java
* /guava-r06-sources-jar/com/google/common/collect/Iterables.java
* /guava-r06-sources-jar/com/google/common/collect/ForwardingQueue.java
* /guava-r06-sources-jar/com/google/common/io/Closeables.java
* /guava-r06-sources-jar/com/google/common/collect/EnumBiMap.java
* /guava-r06-sources-jar/com/google/common/collect/MapConstraint.java
*
/guava-r06-sources-jar/com/google/common/collect/ComparatorOrdering.java
* /guava-r06-sources-jar/com/google/common/collect/LinkedHashMultimap.java
* /guava-r06-sources-jar/com/google/common/collect/EnumHashBiMap.java
* /guava-r06-sources-jar/com/google/common/collect/AbstractMultiset.java
* /guava-r06-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /guava-r06-sources-jar/com/google/common/collect/ForwardingIterator.java
* /guava-r06-sources-jar/com/google/common/io/package-info.java
* /guava-r06-sources-jar/com/google/common/util/concurrent/package-info.java
* /guava-r06-sources-jar/com/google/common/collect/AbstractSetMultimap.java
* /guava-r06-sources-jar/com/google/common/collect/Iterators.java
* /guava-r06-sources-jar/com/google/common/collect/ImmutableList.java
* /guava-r06-sources-jar/com/google/common/io/CountingInputStream.java
* /guava-r06-sources-jar/com/google/common/collect/ArrayListMultimap.java
* /guava-r06-sources-jar/com/google/common/collect/SetMultimap.java
*
/guava-r06-sources-jar/com/google/common/collect/Multiset.java
* /guava-r06-sources-jar/com/google/common/collect/ForwardingSortedSet.java
* /guava-r06-sources-jar/com/google/common/base/Predicate.java
* /guava-r06-sources-jar/com/google/common/collect/MapConstraints.java
* /guava-r06-sources-jar/com/google/common/collect/SingletonImmutableSet.java
* /guava-r06-sources-jar/com/google/common/primitives/Primitives.java
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* /guava-r06-sources-jar/com/google/common/collect/Multimaps.java
* /guava-r06-sources-jar/com/google/common/io/ByteStreams.java
* /guava-r06-sources-jar/com/google/common/collect/Constraint.java
* /guava-r06-sources-jar/com/google/common/collect/NaturalOrdering.java
* /guava-r06-sources-jar/com/google/common/io/CountingOutputStream.java
* /guava-r06-sources-jar/com/google/common/collect/ForwardingSet.java
* /guava-r06-sources-jar/com/google/common/collect/HashMultiset.java
*
/guava-r06-sources-jar/com/google/common/collect/Maps.java
* /guava-r06-sources-jar/com/google/common/collect/UsingToStringOrdering.java

```

\* /guava-r06-sources-jar/com/google/common/util/concurrent/ListenableFuture.java

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\* /guava-r06-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

\* /guava-r06-sources-jar/com/google/common/io/PatternFilenameFilter.java

\*

/guava-r06-sources-jar/com/google/common/util/concurrent/Futures.java

\* /guava-r06-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java

\* /guava-r06-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java

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Eclipse

The following artifacts are EPL.

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

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

The following artifacts are EPL and CDDL 1.0.

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

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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

-----

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

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

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

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# 1.361 appdynamics dotnet agent extension 2.0.0

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# 1.362 oauth-consumer 20090617

## 1.363 presentationframework.aero2 4.8.3761

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```

* /rome-1-0-sources-6-jar/com/sun/syndication/feed/impl/EqualsBean.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/WireFeed.java
*
/rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Enclosure.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/XmlReader.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndContentImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/DCModuleImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/WireFeedGenerator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS10.java
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* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndImageImpl.java
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*
/rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndImage.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS090.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Guid.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS091NetscapeParser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/FeedException.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS091UserlandParser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndEntryImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS10Generator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/Extendable.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Content.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/ModuleGenerator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndLinkImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/SyModuleImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/DCSubjectImpl.java
*
/rome-1-0-sources-6-jar/com/sun/syndication/io/impl/DCModuleParser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndCategory.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS093.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Source.java
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* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/Atom10Parser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/atom/Person.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/impl/CloneableBean.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS091UserlandGenerator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Category.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS20Generator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/ModuleImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/atom/Entry.java
*

```

```

/rome-1-0-sources-6-jar/com/sun/syndication/feed/impl/ToStringBean.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Cloud.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS092Generator.java
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* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS092Parser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Channel.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS093Generator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS093Parser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/atom/Content.java
*
/rome-1-0-sources-6-jar/com/sun/syndication/io/impl/DCModuleGenerator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/atom/Link.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndLink.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/ModuleParsers.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/impl/ObjectBean.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS20Parser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/FeedGenerators.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/atom/Category.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/DateParser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS091Netscape.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/PluginManager.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS094Generator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/SyModuleParser.java
*
/rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForAtom10.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndEntry.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/ModuleParser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Description.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/impl/ModuleUtils.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/TextInput.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/SyModule.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS094.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS094Parser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/impl/BeanIntrospector.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS20wNSParser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS092.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/impl/CopyFromHelper.java
*
/rome-1-0-sources-6-jar/com/sun/syndication/io/impl/Atom03Parser.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS091Userland.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/CopyFrom.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndFeedImpl.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/RSS091NetscapeGenerator.java

```



```
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/Module.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/Atom03Generator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/SyndFeedInput.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/Base64.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndFeed.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/module/DCModule.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForRSS20.java
* /rome-1-0-sources-6-jar/com/sun/syndication/io/impl/SyModuleGenerator.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/ConverterForAtom03.java
*
/rome-1-0-sources-6-jar/com/sun/syndication/io/impl/FeedParsers.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/impl/Converters.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/SyndContent.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/synd/Converter.java
* /rome-1-0-sources-6-jar/com/sun/syndication/feed/rss/Item.java
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Found in path(s):

```
* /rome-1-0-sources-6-jar/com/sun/syndication/rome.properties
```

# 1.368 tomcat-tribes 9.0.98

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# 1.369 spring-aop 5.3.39

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```
* /spring-aop-5-3-39-sources-2-
jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java
* /spring-aop-5-3-39-sources-2-
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AdvisedSupport.java
*
/spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/AopUtils.java
* /spring-aop-5-3-39-sources-2-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /spring-aop-5-3-39-sources-2-
jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
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- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/PoolingConfig.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java
- \*
- /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/LazyInitTargetSource.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/dynamic/Refreshable.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/Pointcut.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/scope/ScopedObject.java
- \* /spring-aop-5-3-39-sources-2-
- jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AopProxy.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/PointcutAdvisor.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/adapter/AdvisorAdapter.java
- \* /spring-aop-5-3-39-sources-2-
- jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
- \*
- /spring-aop-5-3-39-sources-2-
- jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/AfterReturningAdvice.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AopProxyFactory.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/IntroductionAdvisor.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/PointcutComponentDefinition.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectJAopUtils.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
- \*
- /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/scope/DefaultScopedObject.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AopConfigException.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/IntroductionInfo.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java

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\* /spring-aop-5-3-39-sources-2-jar/org/aopalliance/intercept/ConstructorInvocation.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/ProxyProcessorSupport.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java  
\*  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java



\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/IntroductionInfoSupport.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/TargetSource.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java  
 \*  
 /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectException.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java  
 \*  
 /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/CommonsPool2TargetSource.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/AdvisorComponentDefinition.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/TrueMethodMatcher.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/DynamicMethodMatcher.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/TrueClassFilter.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/StaticMethodMatcher.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/AopNamespaceUtils.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java  
 \*  
 /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AdvisorChainFactory.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/MethodBeforeAdvice.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/MethodInterceptor.java  
 \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/AopConfigUtils.java  
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\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java

\* /spring-aop-5-3-39-sources-2-

jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java

\*

/spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java

\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java

\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java

\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/CglibAopProxy.java

\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/EmptyTargetSource.java

\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/target/HotSwappableTargetSource.java

\* /spring-aop-5-3-39-sources-2-

jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java

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\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/autoproxy/AbstractAutoProxyCreator.java  
\*  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/ProxyFactoryBean.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AopProxyUtils.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java  
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\* /spring-aop-5-3-39-sources-2-jar/org/aopalliance/intercept/Interceptor.java  
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/spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/MethodMatcher.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/ClassFilters.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/RootClassFilter.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/scope/ScopedProxyUtils.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/MethodMatchers.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/NameMatchMethodPointcut.java  
\* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java  
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- \*
- /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
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- jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java
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- \* /spring-aop-5-3-39-sources-2-
- jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/AspectEntry.java
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- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/config/AdviceEntry.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/AopContext.java
- \*
- /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/framework/Advised.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
- \* /spring-aop-5-3-39-sources-2-
- jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/DebugInterceptor.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
- \* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
- \* /spring-aop-5-3-39-sources-2-
- jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
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\* /spring-aop-5-3-39-sources-2-jar/org/aopalliance/intercept/Joinpoint.java  
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\* /spring-aop-5-3-39-sources-2-jar/org/aopalliance/intercept/MethodInvocation.java

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\* /spring-aop-5-3-39-sources-2-

jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java

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jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java

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jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
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jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
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* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/support/AbstractExpressionPointcut.java
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* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/BeforeAdvice.java
*
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* /spring-aop-5-3-39-sources-2-jar/org/springframework/aop/IntroductionInterceptor.java
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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifiable.java

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\*/

/\*\*

\* Creates a new {@link GeneratorAdapter}. *Subclasses must not use this*

\* constructor*.* Instead, they must use the

\* {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}

\* version.

\*

\* @param mv

\* the

method visitor to which this adapter delegates calls.

\* @param access

\* the method's access flags (see {@link Opcodes}).

\* @param name

\* the method's name.

\* @param desc

\* the method's descriptor (see {@link Type Type}).

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

Found in path(s):

\* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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\*/

/\*\*

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

\*

\* @param mv

\*

the `MethodVisitor` to send the resulting inlined

\* method code to (use `null` for none).

\* @param access

\* the method's access flags (see {@link Opcodes}). This

\* parameter also indicates if the method is synthetic and/or

\* deprecated.

\* @param name

\* the method's name.

\* @param desc

\* the method's descriptor (see {@link Type}).

\* @param signature

\* the method's signature. May be `null`.

\* @param exceptions

\* the internal names of the method's exception classes (see

\* {@link Type#getInternalName() getInternalName}). May be

\* `null`.

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

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\* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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\* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/package.html  
\* /asm-5-0-3-sources-2-jar/org/objectweb/asm/package.html  
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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/Method.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
- \*
- /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/FieldWriter.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/BasicValue.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassVisitor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/AdviceAdapter.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LineNumberNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/AnnotationNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/Constant.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Context.java
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- /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/VarInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ConstantPool.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Frame.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Type.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InsnList.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Handler.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
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- /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Printer.java
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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Subroutine.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/ASMifier.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java

- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
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- /asm-5-0-3-sources-2-jar/org/objectweb/asm/FieldVisitor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/IincInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodVisitor.java
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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/ParameterNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Item.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
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- /asm-5-0-3-sources-2-jar/org/objectweb/asm/Opcodes.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/JarOptimizer.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/NameMapping.java
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- /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassReader.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ByteVector.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LdcInsnNode.java
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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java

```

* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
*
/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Label.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/Handle.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
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```

```

*/
/**

```

```

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

```

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```

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

```



```

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

```

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

\* @param typeRef  
\* a reference to the annotated type. See {@link TypeReference}.

\* @param typePath  
\* the path to the annotated type argument, wildcard bound, array  
\* element type, or static inner type within 'typeRef'. May be  
\* <tt>null</tt> if the annotation targets 'typeRef' as a whole.

\* @param start  
\* the first instructions corresponding to the continuous ranges  
\* that make the scope of this local variable (inclusive).

\* @param end  
\* the last instructions corresponding to the continuous ranges  
\* that make the scope of this local variable (exclusive). This  
\* array must have the same size as the 'start' array.

\* @param index  
\* the local variable's index in each range. This array must have  
\* the same size as the 'start' array.

\* @param desc  
\* the class descriptor of  
the annotation class.

\*/

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\*

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- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/Processor.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXClassAdapter.java
- \*
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/ASMContentHandler.java
- \* /asm-5-0-3-sources-2-jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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

```

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```

* /asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifier.java

```

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see <https://bugs.eclipse.org/320618>

\* Thirumala Reddy Mutchukota <thirumala@google.com> - Contribution to bug:  
[https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=411423](https://bugs.eclipse.org/bugs/show_bug.cgi?id=411423)

\* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -  
<https://bugs.eclipse.org/421165>

\* Andrey Loskutov <loskutov@gmx.de>

- ExternalFoldersManager.RefreshJob interrupts auto build job - <https://bugs.eclipse.org/476059>

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/AST.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/ASTRewriteFlattener.java  
\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JavaNature.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/CompletionScanner.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ASTNode.java  
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\* Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/LambdaExpression.java

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\* Andy Clement (GoPivotal, Inc) [aclement@gopivotal.com](mailto:aclement@gopivotal.com) - Contributions for

\* bug 407191 - [1.8] Binary access support for type annotations

\* Stephan Herrmann - Contribution for

\* Bug 440474 - [null] textual encoding of external null annotations

\*\*\*\*\*/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/hierarchy/HierarchyBinaryType.java

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* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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\* Bug 458613 - [1.8] lambda not shown in quick type hierarchy  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/ModuleInfoBuilder.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/nd/java/model/BinaryModuleFactory.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IModularClassFile.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IOrdinaryClassFile.java  
\*  
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/nd/java/model/BinaryModuleDescriptor.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/ModuleEntryProcessor.java  
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\* Contributors:

\* John Glassmyer <jogl@google.com> - import group sorting is broken - <https://bugs.eclipse.org/430303>

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jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ReorderingImportAdder.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/RewriteSite.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/StaticConflictingSimpleNameFinder.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/OnDemandComputer.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportRewriteConfiguration.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/OriginalImportEntry.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportsDelta.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportName.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/PackageImportComparator.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/TypeConflictingSimpleNameFinder.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/PackageAndContainingTypeImportComparator.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/NewImportEntry.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/OnDemandReduction.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportDeclarationWriter.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/RemovedImportCommentReassigner.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/OrderPreservingImportAdder.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportEntry.java  
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* Jesper Steen Moeller - Contributions for:
* Bug 406973 - [compiler] Parse MethodParameters attribute
*****/

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* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*****/

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\* Alex Blewitt - alex\_blewitt@yahoo.com [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=171066](https://bugs.eclipse.org/bugs/show_bug.cgi?id=171066)

\* Microsoft Corporation - read formatting options from the compilation unit

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* IBM - rewrote spec
* Christoph Läubrich - Enhance the BuildContext with the discovered annotations #674
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* Tim Hanson <thanson@bea.com> - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=137634
* Sebastian Zarnekow - Contribution for
* Bug 545491 - Poor performance of ReferenceCollection with many source files
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\* Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation

\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Bug 462768 - [null] NPE when using linked folder for external annotations

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jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedSuperReference.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/IJavaElementRequestor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/jdom/ILineStartFinder.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/search/matching/PackageDeclarationLocator.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/IRequestor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ILRUCacheable.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/CompletionRequestorAdapter.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/ISearchPattern.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/SaveIndex.java

```
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/VariablesInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/AbortIncrementalBuildException.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/IPathRequestor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/XMLWriter.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnSuperReference.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JarPackageFragmentInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/INamingRequestor.java
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* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
especially when max line width is set - https://bugs.eclipse.org/303519

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/NestMembersAttributeEntry.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/INestHostAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/NestMembersAttribute.java
*
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/INestMemberAttributeEntry.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/INestMembersAttribute.java
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* Bug 406973 - [compiler] Parse MethodParameters attribute
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```

* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/MethodInfo.java
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* Andreas Magnusson <andreas.ch.magnusson@gmail.com>- contribution for bug 151500
*****/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/InternalCompletionProposal.java

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Found in path(s):

```
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesInterfacesQualifiedTypeReference.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesInterfacesSingleTypeReference.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnUsesQualifiedTypeReference.java
*
/org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnUsesSingleTypeReference.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnModuleDeclaration.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnModuleReference.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeywordModuleDeclaration.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesImplementationsSingleTypeReference.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeywordModuleInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnExportReference.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnPackageVisibilityReference.java
*
/org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesImplementationsQualifiedTypeReference.java
a
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeywordModule2.java
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/messages.properties

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IModuleMainClassAttribute.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ProvidesInfo.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/RequiresInfo.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IModuleAttribute.java

\*

```

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IRequiresInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ModulePackagesAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/ModulePattern.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IProvidesInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/ModuleDeclarationMatch.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IConstantPoolEntry3.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ModuleAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/PackageVisibilityInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IPackageVisibilityInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IModulePackagesAttribute.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ModuleMainClassAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/ModuleReferenceMatch.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see
https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425
* Thirumala Reddy Mutchukota <thirumala@google.com> - Avoid optional library classpath entries validation -
https://bugs.eclipse.org/bugs/show_bug.cgi?id=412882
* Stephan Herrmann - Contribution for
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 462768 - [null] NPE when using linked folder for external annotations
* Bug 465296 - precedence of extra attributes on a classpath container
* Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule
*****/

```

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ClasspathEntry.java
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* IBM Corporation - initial API and implementation
* IBM Corporation - specified that a source archive or a source folder can be attached to a binary
* package fragment root.
* IBM Corporation - added root manipulation APIs: copy, delete, move
* IBM Corporation - added DESTINATION_PROJECT_CLASSPATH
* IBM Corporation - added OTHER_REFERRING_PROJECTS_CLASSPATH
* IBM Corporation - added NO_RESOURCE_MODIFICATION
* IBM Corporation - added REPLACE
* IBM Corporation - added ORIGINATING_PROJECT_CLASSPATH
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IPackageFragmentRoot.java
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* Stephan Herrmann - Contribution for
* Bug 186342 - [compiler][null] Using annotations for null checking
* Bug 440474 - [null] textual encoding of external null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
*****/

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/CodeSnippetSkeleton.java
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- \* Contributors:
- \* [tyeung@bea.com](mailto:tyeung@bea.com) - initial API and implementation
- \* IBM Corporation - implemented methods from IBinding
- \* IBM Corporation - renamed from ResolvedMemberValuePair to MemberValuePairBinding
- \* [jgarms@bea.com](mailto:jgarms@bea.com) - Fix for IllegalStateException
- \* IBM Corporation - Fix for 223225

\*\*\*\*\*/

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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/MemberValuePairBinding.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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\* IBM Corporation - implemented methods from IBinding  
\* IBM Corporation - renamed from ResolvedAnnotation to AnnotationBinding  
\* IBM Corporation - Fix for 328969  
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\* Stephan Herrmann - Contributions for  
\* Bug 185682 - Increment/decrement operators mark local variables as read  
\* Bug 458396 - NPE in CodeStream.invoke()  
\*\*\*\*\*/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/CodeSnippetSingleNameReference.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/CodeSnippetQualifiedNameReference.java  
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/PublicScanner.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ASTVisitor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistParser.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ASTMatcher.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CopyResourceElementsOperation.java
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* Contributors:
* IBM Corporation - initial API and implementation
* IBM Corporation - added J2SE 1.5 support
* Microsoft Corporation - support custom options at compilation unit level
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* Contributors:
* IBM Corporation - initial API and implementation
* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
*****/
```

Found in path(s):

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/rewrite/ImportRewrite.java
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* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
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- \* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

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\* John Glassmyer <jogl@google.com> - import group sorting is broken - <https://bugs.eclipse.org/430303>

\* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for

\* Bug 473178

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Found in path(s):

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportGroupComparator.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportEditor.java

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionNodeFound.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/StackMapFrame.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/RemoveFromIndex.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnLocalName.java
*
/ org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/hierarchy/HierarchyType.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/LineNumberAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnFieldName.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ToStringSorter.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/ISourceAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/MemberValuePair.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ClasspathVariableInitializer.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/OpcodeStringValue.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/InnerClassesAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ICompletionRequestor.java
*
/ org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/Annotation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ConstantValueAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/NameSet.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/VerboseElementCache.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/SourceFileAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/LocalVariableTypeTableEntry.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/TokenScanner.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceFieldWithChildrenInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/jdom/DOMCompilationUnit.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/TypeNameMatchRequestor.java
*
/ org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/HashtableOfArrayToObject.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ASTNodeFinder.java
```

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IProblemRequestor.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ITypeHierarchyChangedListener.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/QualifiedNameSet.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/index/MemoryIndex.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/TypeNameRequestorWrapper.java  
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 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/PackageDeclarationMatch.java

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 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IFieldInfo.java  
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IExceptionTableEntry.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/SimpleWordSet.java
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- /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/ClassFormatException.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/RenameElementsOperation.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ElementCache.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/jdom/DOMMethod.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/InnerClassesAttributeEntry.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnFieldType.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ExternalJavaProject.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/DefaultWorkingCopyOwner.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ClasspathAccessRule.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/CharArrayBuffer.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IConstantValueAttribute.java
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- /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/CodeSnippetCompiler.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IMethodInfo.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IStackMapAttribute.java

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/LocalVariableTableEntry.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ClassFileAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/Message.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ISourceRange.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CommitWorkingCopyOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/NodeRewriteEvent.java
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* /org-eclipse-jdt-core-3-40-0-sources-
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/InvalidCursorLocation.java
* /org-eclipse-jdt-core-3-40-0-sources-
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnFieldReference.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/ILocalVariableAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/MethodDeclarationMatch.java
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/jdom/DOMPackage.java
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\* Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/UsesDirective.java  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ExportsDirective.java  
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\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

\* Karsten Thoms - Bug 532505

\* Sebastian Zarnekow - Contribution for

\* Bug 545491 - Poor performance of ReferenceCollection with many source files

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\* Jesper S Moller <jesper@selskabet.org> - Contributions for

\* bug 378674 - "The method can be declared as static" is wrong  
\* Stephan Herrmann - Contribution for  
\* Bug 424167 - [1.8] Fully integrate type inference with overload resolution  
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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - <https://bugs.eclipse.org/303519>  
\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - <https://bugs.eclipse.org/462945>  
\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - <https://bugs.eclipse.org/458208>  
\* IBM Corporation - DOM AST changes for JEP 354

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* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/PackageDeclaration.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/VariableDeclarationFragment.java
*
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/FieldDeclaration.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/VariableDeclarationStatement.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ICacheEnumeration.java
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SuperConstructorInvocation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/CatchClause.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeyword2.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IAnnotation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/NumberLiteral.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/PostfixExpression.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/EnhancedForStatement.java
*
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/WhileStatement.java
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/AssertStatement.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SuperMethodInvocation.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/EnumConstantDeclaration.java
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- jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMessageSend.java
- \*
- /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/Initializer.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/jdom/DOMType.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/IfStatement.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CreateFieldOperation.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/SourceModifier.java
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- /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/NullLiteral.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/QualifiedName.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/TypeDeclarationStatement.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/LRUCache.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/BooleanLiteral.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ForStatement.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/Assignment.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ImportDeclaration.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/NodeFinder.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/PrimitiveType.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/MethodInvocation.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CreatePackageFragmentOperation.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/OverflowingLRUCache.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SuperFieldAccess.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IAnnotatable.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ASTHolderCUInfo.java
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* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Bad line breaking in Eclipse javadoc comments -
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions
 for
* Bug 473178

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/nd/java/model/BinaryTypeFactory.java
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* Bug 466279 - [hovering] IAE on hover when annotation-based null analysis is enabled
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jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnQualifiedNameReference.java
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/AbstractSearchScope.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/VariablePattern.java
*
/ org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMFactory.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/processing/IJob.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CreateTypeOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedNameReference.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMMethod.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/IndexRequest.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/PossibleMatchSet.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/TypeDeclarationPattern.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMCompilationUnit.java  
 \*  
 /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/Initializer.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/AndPattern.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnSingleTypeReference.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ReferenceInfoAdapter.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ElementChangedEvent.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMField.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMPackage.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceRefElement.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/ImageBuilderInternalException.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IInitializer.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/DeleteResourceElementsOperation.java  
 \*  
 /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/SubTypeSearchJob.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMMember.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/NonJavaResource.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CopyPackageFragmentRootOperation.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMType.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/FieldReferenceMatch.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMInitializer.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/UserLibraryClasspathContainer.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/MultiTypeDeclarationPattern.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/DOMFactory.java  
 \*  
 /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/eval/IGlobalVariable.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/jdom/IDOMImport.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMemberAccess.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedTypeReference.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IRegion.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnSingleNameReference.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/DeclarationOfReferencedMethodsPattern.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/SuperTypeReferencePattern.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CreatePackageDeclarationOperation.java  
 \*  
 /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/MovePackageFragmentRootOperation.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/DeclarationOfAccessedFieldsPattern.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IParent.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/MovePackageFragmentRootOperation.java

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jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedAllocationExpression.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CreateInitializerOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/AbstractJavaSearchScope.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/UserLibraryClasspathContainerInitializer.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IJavaModelStatus.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnSingleNameReference.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/VariableLocator.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IImportContainer.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/PackageReferenceMatch.java
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/GlobalVariable.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/core/search/matching/PackageReferenceLocator.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/AnnotatableInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/PackageDeclaration.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/compiler/SourceElementRequestorAdapter.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ImportContainer.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/AdditionalTypeCollection.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ChangeClasspathOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ImportDeclarationElementInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/BufferChangedEvent.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IPackageDeclaration.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ILocalVariable.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/TypeReferencePattern.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnPackageReference.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/StringOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-

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jar/org/eclipse/jdt/internal/core/search/indexing/RemoveFolderFromIndex.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/index/EntryResult.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ISourceReference.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/TypeNameRequestor.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ExternalPackageFragmentRoot.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/PackageReferencePattern.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ImportDeclaration.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IBuffer.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/TypeNameMatch.java  
\*  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/EvaluationResult.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnPackageReference.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/TypeParameterLocator.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JavaElementInfo.java  
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\* Bug 185682 - Increment/decrement operators mark local variables as read  
\* Bug 458396 - NPE in CodeStream.invoke()  
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* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178

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* Theodora Yeung (tyeung@bea.com) - ensure that JarPackageFragmentRoot make it into cache
* before its contents
* (see https://bugs.eclipse.org/bugs/show_bug.cgi?id=102422)
* Stephan Herrmann - Contributions for
* Bug 346010 - [model] strange initialization dependency in OptionTests
* Bug 440477 - [null] Infrastructure

```

for feeding external annotations into compilation

- \* Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=357425](https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425)
- \* Thirumala Reddy Mutchukota <thirumala@google.com> - Contribution to bug: [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=411423](https://bugs.eclipse.org/bugs/show_bug.cgi?id=411423)
- \* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches - <https://bugs.eclipse.org/421165>
- \* Terry Parker <tparker@google.com> - Enable the Java model caches to recover from IO errors - <https://bugs.eclipse.org/455042>
- \* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
- \* Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule

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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IMember.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/PatternLocator.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ASTSyntaxErrorPropagator.java
- \*
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/IIndexConstants.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IPackageFragment.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/Engine.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JarPackageFragment.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/PackageBinding.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IJavaElement.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/hierarchy/TypeHierarchy.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ConstantPoolEntry2.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ConstantPoolEntry.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/hierarchy/ChangeCollector.java



\* /org-eclipse-jdt-core-3-40-0-sources-  
jar/org/eclipse/jdt/internal/core/search/matching/TypeDeclarationLocator.java  
\*  
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/hierarchy/RegionBasedHierarchyBuilder.java  
\* /org-eclipse-jdt-core-3-40-0-sources-  
jar/org/eclipse/jdt/internal/core/search/matching/QualifiedTypeDeclarationPattern.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IClassFile.java  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/TryStatement.java  
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jar/org/eclipse/jdt/internal/core/search/matching/SuperTypeNamesCollector.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/IPackageBinding.java  
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\* Ray V. (voidstar@gmail.com) - Contribution for bug 282988

- \* Jesper S Moller - Contribution for bug 402173
- \* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - <https://bugs.eclipse.org/303519>

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\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - <https://bugs.eclipse.org/458208>  
\* Mateusz Matela <mateusz.matela@gmail.com> - NPE in WrapExecutor during Java text formatting -

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\* Microsoft Corporation - contribution for bug 575562 - improve completion search performance

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* IBM Corporation - added support for requesting updates of a particular
* container for generic container operations.
* - canUpdateClasspathContainer(IPath, IJavaProject)
* - requestClasspathContainerUpdate(IPath, IJavaProject, IClasspathContainer)
* IBM Corporation - allow initializers to provide a readable description
* of a container reference, ahead of actual resolution.
*
* - getDescription(IPath, IJavaProject)
*****/

```

Found in path(s):

```

* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/ClasspathContainerInitializer.java
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* Stephan Herrmann - Contribution for
* Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 462768 - [null] NPE when using linked folder for external annotations
*****/

```

Found in path(s):

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/AbstractClassFile.java
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\* Bug 463533 - Signature.getSignatureSimpleName() returns different results for resolved and unresolved extends

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\* Christoph Läubrich - Enhance theBuildContext with the discovered annotations #674

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* Jesper Steen Møller - Contributions for
* bug 529552 - [18.3] Add 'var' in completions
*****/

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\*   Jesper S Moller - Contributions for  
\*   Bug 378674 - "The method can be declared as static" is wrong  
\*   Stephan Herrmann - Contribution for  
\*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\*\*\*\*\*/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/BootstrapMethodsEntry.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IBootstrapMethodsAttribute.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/BootstrapMethodsAttribute.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/jdtCompilerAdaptersrc/org/eclipse/jdt/core/BuildJarIndex.java  
\*  
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/index/JavaIndexer.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IBootstrapMethodsEntry.java  
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*****/
/**
 * Returns the classpath entry that is making a reference to this classpath entry. For entry kinds
 * {@link #CPE_LIBRARY}, the return value is the entry that is representing the JAR that includes
 * <code>this</code> in the MANIFEST.MF file's Class-Path section. For entry kinds other than
 * {@link #CPE_LIBRARY}, this returns <code>null</code>. For those entries
that are on the raw classpath already,
 * this returns <code>null</code>.
 *
 * <p>
 * It is possible that multiple library entries refer to the same entry
 * via the MANIFEST.MF file. In those cases, this method returns the first classpath entry
 * that appears in the raw classpath. However, this does not mean that the other referencing
 * entries do not relate to their referenced entries.
 * See {@link JavaCore#getReferencedClasspathEntries(IClasspathEntry, IJavaProject)} for
 * more details.
 *
 * </p>
 *
 * @return the classpath entry that is referencing this entry or <code>null</code> if
 * not applicable.
 * @since 3.6
 */

```

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IClasspathEntry.java

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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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```

Found in path(s):

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* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnParameterizedQualifiedTypeReference.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnParameterizedSingleTypeReference.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - TypeConverters don't set enclosingType -
https://bugs.eclipse.org/bugs/show_bug.cgi?id=320841
*****/
```

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```

especially when max line width is set - <https://bugs.eclipse.org/303519>

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - <https://bugs.eclipse.org/458208>

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistPackageDeclaration.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistSourceField.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistImportDeclaration.java  
\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistInitializer.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistAnnotation.java  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistSourceType.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistSourceMethod.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/impl/AssistTypeParameter.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/rewrite/ListRewrite.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/AnnotationTypeMemberDeclaration.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ChildListPropertyDescriptor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/MemberRef.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/StructuralPropertyDescriptor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/WeakHashSetOfCharArray.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/MethodRef.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/AbstractTypeDeclaration.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/MethodRefParameter.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ChildPropertyDescriptor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/AnnotationTypeDeclaration.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SimplePropertyDescriptor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/WeakHashSet.java

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/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/TextElement.java

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\* Bug 463330 - [dom] DOMFinder doesn't find the VariableBinding corresponding to a method argument

\* Bug 464463 - [dom] DOMFinder doesn't find an ITypeParameter

\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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\* Vladimir Piskarev <pisv@1c.ru> - Thread safety of OpenableElementInfo - <https://bugs.eclipse.org/450490>

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\* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -

<https://bugs.eclipse.org/421165>

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* Tim Hanson (thanson@bea.com) - patch for https://bugs.eclipse.org/bugs/show_bug.cgi?id=126673
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IMethodParametersAttribute.java

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/MethodParametersAttribute.java

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\* 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 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JavaProjectElementInfo.java
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* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

```

- \* Stephan Herrmann - Contribution for
- \* 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)

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* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178

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\*   tyeung@bea.com - initial API and implementation  
\*   IBM Corporation - changed interface to extend IBinding  
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\* alex.panchenko@gmail.com - Bug 470535 - Bug in UserLibrary.hashCode()

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/CompletionRequestor.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/AbstractTextElement.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/JavaDocRegion.java  
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\* Andy Clement - Contributions for  
\* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
work)

\* Jesper Steen Moller - Contributions for  
\* Bug 406973 - [compiler] Parse MethodParameters attribute  
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\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - <https://bugs.eclipse.org/303519>

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - <https://bugs.eclipse.org/462945>

\* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - <https://bugs.eclipse.org/458208>

\* IBM Corporation - DOM AST changes for JEP 354

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\* John Glassmyer <jogl@google.com> - import group sorting is broken - <https://bugs.eclipse.org/430303>

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportComparator.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportComment.java  
\*  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/BinaryType.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/InstanceOfExpression.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/MatchLocatorParser.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/BinaryMember.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/FieldLocator.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceType.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnSingleTypeReference.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CompilationUnitProblemFinder.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SimpleName.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IConstantPool.java

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/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/BatchImageBuilder.java

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jar/org/eclipse/jdt/internal/core/search/matching/JavaSearchNameEnvironment.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/index/Index.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SimpleType.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JarPackageFragmentRootInfo.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/DefaultBytecodeVisitor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnLocalName.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/DeltaProcessingState.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/HandleFactory.java

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/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/JavaSearchParticipant.java  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/PossibleMatch.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/hierarchy/IndexBasedHierarchyBuilder.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/ClasspathSourceDirectory.java  
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/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/NormalAnnotation.java  
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/Annotation.java  
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/MemberValuePair.java  
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SingleMemberAnnotation.java  
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\* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/AndLocator.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnQualifiedAllocationExpression.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/SearchDocument.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SingleVariableDeclaration.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/ArrayType.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceMethod.java
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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/formatter/IndentManipulation.java

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* Stephan Herrmann - Contribution for
* bug 363858 - [dom] early throwing of AbortCompilation causes NPE in CompilationUnitResolver
* Bug 466279 - [hovering] IAE on hover when annotation-based null analysis is enabled

```

\*\*\*\*\*/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/CompilationUnitResolver.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/schema/annotationProcessorManager.exsd

\* /org-eclipse-jdt-core-3-40-0-sources-jar/schema/javaFormatter.exsd

\* /org-eclipse-jdt-core-3-40-0-sources-jar/schema/compilationParticipant.exsd

\* /org-eclipse-jdt-core-3-40-0-sources-jar/schema/compilationUnitResolver.exsd

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\* Stephan Herrmann - contribution for bug 337868 - [compiler][model] incomplete support for package-info.java  
when using SearchableEnvironment

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\* Kelly Campbell <kellyc@google.com> - Hangs in SourceMapper during java proposals -  
[https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=281575](https://bugs.eclipse.org/bugs/show_bug.cgi?id=281575)  
\* Stephan Herrmann - Contribution for Bug 380048 - error popup when navigating to source files  
\*\*\*\*\*/

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\* Christoph Läubrich - Enhance the BuildContext with the discovered annotations #674  
\*\*\*\*\*/

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\* Nikolay Botev - Bug 348507  
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* Contributors:
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
 especially when max line width is set - https://bugs.eclipse.org/303519
* Till Brychcy - Java Code Formatter breaks code if single line comments contain unicode escape -
 https://bugs.eclipse.org/471090
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
 work)
*****/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/index/IndexQualifier.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/index/JarIndexLocation.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/index/FileIndexLocation.java

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\* Terry Parker <tparker@google.com>

\* - Contribution for [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=372418](https://bugs.eclipse.org/bugs/show_bug.cgi?id=372418)

\* - Another problem with inner classes referenced from jars or class folders: "The type ... cannot be resolved"

\* Stephan Herrmann - Contribution for

\* Bug 392727 - Cannot compile project when a java file contains \$ in its file name

\* Bug 440477 - [null] Infrastructure for feeding external annotations

into compilation

\*\*\*\*\*/

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\* Bug 377883 - NPE on open Call Hierarchy

\* Microsoft Corporation - Contribution for bug 575562 - improve completion search performance

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\* Samrat Dhillon samrat.dhillon@gmail.com - Search for method references is

\* returning methods as overridden even if the superclass's method is

\* only package-visible - <https://bugs.eclipse.org/357547>

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\* Timo Kinnunen - Contributions for bug 377373 - [subwords] known limitations with JDT 3.8

\* Bug 420953 - [subwords] Constructors that don't match prefix not found

\* IBM Corporation - initial API and implementation

\* Stephan Herrmann - Contribution for

\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

\* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions

\* Microsoft Corporation - Contribution for bug 575562 - improve completion search performance

\* Bug 578817 - skip the ignored types before creating CompletionProposals

\* Microsoft Corporation - Contribution for bug 578815 - more candidates when completion after new keyword for an interface

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\* Vladimir Piskarev <pisv@1c.ru> - Building large Java element deltas is really slow -

<https://bugs.eclipse.org/443928>

\* Vladimir Piskarev <pisv@1c.ru> - F\_CONTENT sometimes lost when merging deltas -

<https://bugs.eclipse.org/520336>

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* Jesper Steen Møller <jesper@selskabet.org> - contributions for:
* Bug 531046: [10] ICodeAssist#codeSelect support for 'var'
*****/

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IRuntimeInvisibleTypeAnnotationsAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/LocalVariableReferenceInfo.java
*
/ org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/core/util/RuntimeVisibleTypeAnnotationsAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IRuntimeVisibleTypeAnnotationsAttribute.java
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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/IJavaSearchScope.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/SearchRequestor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/MethodReferenceMatch.java
*
/ org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnQualifiedTypeReference.java

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* Jesper Steen Moller - Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
 especially when max line width is set - https://bugs.eclipse.org/303519
* Mateusz Matela
 <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178

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\* Alex Smirnoff (alexsmr@sympatico.ca) - part of the changes to support Java-like extension

\*

(see [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=71460](https://bugs.eclipse.org/bugs/show_bug.cgi?id=71460))

\* Microsoft Corporation - support custom options at compilation unit level

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\* Bug 425183 - [1.8][inference] make CaptureBinding18 safe

\* Bug 462025 - [null][test] create tests for manipulating external null annotations

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```

Found in path(s):

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ClasspathAttributeDelta.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/IClasspathAttributeDelta.java  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/ClasspathJMod.java

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\* IBM Corporation - added the following constants:

\* COMPILER\_PB\_DEPRECATION\_IN\_DEPRECATED\_CODE

\* COMPILER\_PB\_STATIC\_ACCESS\_RECEIVER

\* COMPILER\_TASK\_TAGS

\* CORE\_CIRCULAR\_CLASSPATH

\* CORE\_INCOMPLETE\_CLASSPATH

\* IBM Corporation - added run(IWorkspaceRunnable, IProgressMonitor)

\*

IBM Corporation - added exclusion patterns to source classpath entries

\* IBM Corporation - added specific output location to source classpath entries

\* IBM Corporation - added the following constants:

\* CORE\_JAVA\_BUILD\_CLEAN\_OUTPUT\_FOLDER

\* CORE\_JAVA\_BUILD\_RECREATE\_MODIFIED\_CLASS\_FILES\_IN\_OUTPUT\_FOLDER

\* CLEAN

\* IBM Corporation - added getClasspathContainerInitializer(String)

\* IBM Corporation - added the following constants:

\* CODEASSIST\_ARGUMENT\_PREFIXES

\* CODEASSIST\_ARGUMENT\_SUFFIXES

\* CODEASSIST\_FIELD\_PREFIXES

\* CODEASSIST\_FIELD\_SUFFIXES

\* CODEASSIST\_LOCAL\_PREFIXES

\* CODEASSIST\_LOCAL\_SUFFIXES

\* CODEASSIST\_STATIC\_FIELD\_PREFIXES

\*

CODEASSIST\_STATIC\_FIELD\_SUFFIXES

\* COMPILER\_PB\_CHAR\_ARRAY\_IN\_STRING\_CONCATENATION

\* IBM Corporation - added the following constants:

\* COMPILER\_PB\_LOCAL\_VARIABLE\_HIDING

\* COMPILER\_PB\_SPECIAL\_PARAMETER\_HIDING\_FIELD

\* COMPILER\_PB\_FIELD\_HIDING

\* COMPILER\_PB\_POSSIBLE\_ACCIDENTAL\_BOOLEAN\_ASSIGNMENT

```

* CORE_INCOMPATIBLE_JDK_LEVEL
* VERSION_1_5
* COMPILER_PB_EMPTY_STATEMENT
* IBM Corporation - added the following constants:
* COMPILER_PB_INDIRECT_STATIC_ACCESS
* COMPILER_PB_BOOLEAN_METHOD_THROWING_EXCEPTION
* COMPILER_PB_UNNECESSARY_CAST
* IBM Corporation - added the following constants:
*
* COMPILER_PB_INVALID_JAVADOC
* COMPILER_PB_INVALID_JAVADOC_TAGS
* COMPILER_PB_INVALID_JAVADOC_TAGS_VISIBILITY
* COMPILER_PB_MISSING_JAVADOC_TAGS
* COMPILER_PB_MISSING_JAVADOC_TAGS_VISIBILITY
* COMPILER_PB_MISSING_JAVADOC_TAGS_OVERRIDING
* COMPILER_PB_MISSING_JAVADOC_COMMENTS
* COMPILER_PB_MISSING_JAVADOC_COMMENTS_VISIBILITY
* COMPILER_PB_MISSING_JAVADOC_COMMENTS_OVERRIDING
* COMPILER_PB_DEPRECATION_WHEN_OVERRIDING_DEPRECATED_METHOD
*
COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_WHEN_OVERRIDING
* IBM Corporation - added the following constants:
* TIMEOUT_FOR_PARAMETER_NAME_FROM_ATTACHED_JAVADOC
*
 IBM Corporation - added the following constants:
* COMPILER_PB_FALLTHROUGH_CASE
* COMPILER_PB_PARAMETER_ASSIGNMENT
* COMPILER_PB_NULL_REFERENCE
* IBM Corporation - added the following constants:
* CODEASSIST_DEPRECATION_CHECK
* IBM Corporation - added the following constants:
* COMPILER_PB_POTENTIAL_NULL_REFERENCE
* COMPILER_PB_REDUNDANT_NULL_CHECK
* IBM Corporation - added the following constants:
* COMPILER_PB_UNUSED_PARAMETER_INCLUDE_DOC_COMMENT_REFERENCE
* IBM Corporation - added the following constants:
*
COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_INCLUDE_DOC_COMMENT_REFEREN
CE
* IBM Corporation - added the following constants:
* COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION
* COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_NO_TAG
* COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_RETURN_TAG
* COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_ALL_TAGS
* IBM Corporation - added the following constants:
* COMPILER_PB_REDUNDANT_SUPERINTERFACE
* IBM Corporation - added the following constant:
*

```

COMPILER\_PB\_UNUSED\_DECLARED\_THROWN\_EXCEPTION\_EXEMPT\_EXCEPTION\_AND\_THROWABLE

- \* IBM Corporation - added getOptionForConfigurableSeverity(int)
- \* Benjamin Muskalla - added COMPILER\_PB\_MISSING\_SYNCHRONIZED\_ON\_INHERITED\_METHOD
- \* Stephan Herrmann - added COMPILER\_PB\_UNUSED\_OBJECT\_ALLOCATION
- \* Stephan Herrmann - added COMPILER\_PB\_SUPPRESS\_OPTIONAL\_ERRORS
- \* Stephan Herrmann - added the following constants:
  - \* COMPILER\_PB\_UNCLOSED\_CLOSEABLE,
  - \* COMPILER\_PB\_POTENTIALLY\_UNCLOSED\_CLOSEABLE
  - \* COMPILER\_PB\_EXPLICITLY\_CLOSED\_AUTOCLOSEABLE
  - \* COMPILER\_ANNOTATION\_NULL\_ANALYSIS
  - \* COMPILER\_NULLABLE\_ANNOTATION\_NAME
  - \* COMPILER\_NONNULL\_ANNOTATION\_NAME
  - \* COMPILER\_PB\_NULL\_SPECIFICATION\_VIOLATION
  - \* COMPILER\_PB\_POTENTIAL\_NULL\_SPECIFICATION\_VIOLATION
  - \* COMPILER\_PB\_NULL\_SPECIFICATION\_INSUFFICIENT\_INFO
  - \* COMPILER\_PB\_MISSING\_ENUM\_CASE\_DESPITE\_DEFAULT
  - \* COMPILER\_PB\_SWITCH\_MISSING\_DEFAULT\_CASE
  - \* COMPILER\_INHERIT\_NULL\_ANNOTATIONS
  - \* COMPILER\_PB\_NONNULL\_PARAMETER\_ANNOTATION\_DROPPED
  - \* COMPILER\_PB\_SYNTACTIC\_NULL\_ANALYSIS\_FOR\_FIELDS
  - \* COMPILER\_PB\_UNLIKELY\_COLLECTION\_METHOD\_ARGUMENT\_TYPE
  - \* COMPILER\_PB\_UNLIKELY\_EQUALS\_ARGUMENT\_TYPE
- \* Jesper S Moller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
  - \* - added the following constants:
    - \* COMPILER\_CODEGEN\_METHOD\_PARAMETERS\_ATTR
- \* Harry Terkelsen (het@google.com) - Bug 449262
  - Allow the use of third-party Java formatters
- \* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
- \* Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule
- \*
- \*\*\*\*\*/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/JavaCore.java

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\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/search/MethodNameMatchRequestorWrapper.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/search/IRestrictedAccessMethodRequestor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/JavaSearchMethodNameMatch.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/MethodNameRequestorWrapper.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/MethodNameRequestor.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/search/matching/MethodDeclarationPattern.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/MethodNameMatchRequestor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/MethodNameMatch.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/BinaryContainer.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/Module.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/AddJrtToIndex.java

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 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/compiler/ITerminalSymbols.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/Modifier.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionJavadocParser.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/SourceIndexer.java  
 \*  
 /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JarPackageFragmentRoot.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/CompletionNodeDetector.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/Javadoc.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceMethodElementInfo.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/complete/CompletionJavadocParser.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/processing/JobManager.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/index/DiskIndex.java  
 \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/IndexManager.java  
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- \* Terry Parker <tparker@google.com> - DeltaProcessor exhibits O(N^2) behavior, see [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=354332](https://bugs.eclipse.org/bugs/show_bug.cgi?id=354332)
- \* Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=357425](https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425)
- \* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches - <https://bugs.eclipse.org/421165>

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- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/YieldStatement.java
- \* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/SwitchExpression.java

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- \* Stephan Herrmann - Contribution for Bug 378024 - Ordering of comments between imports not preserved

\* John Glassmyer <jogl@google.com> - import group sorting is broken - <https://bugs.eclipse.org/430303>

\*\*\*\*\*/

Found in path(s):

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportRewriteAnalyzer.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ModulePathContainer.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ModulePathContainerInitializer.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JModPackageFragmentRoot.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/AbstractModule.java

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* Contributors:
* Ben Konrath <ben@bagu.org> - initial implementation
* Red Hat Incorporated - improvements based on comments from JDT developers
* IBM Corporation - Code review and integration
* IBM Corporation - Fix for 340181
*****/

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Found in path(s):

```

* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/formatter/CodeFormatterApplication.java
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* Brock Janiczak - Contribution for bug 150741
* Ray V. (voidstar@gmail.com) - Contribution for bug 282988
* Jesper S Moller - Contribution for bug 402173
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
 especially when max line width is set - https://bugs.eclipse.org/303519
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
*****/

```

Found

in path(s):

```

* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/formatter/DefaultCodeFormatterOptions.java
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\* mkaufman@bea.com - initial API as ICompilationParticipant

\* IBM - changed from interface ICompilationParticipant to abstract class CompilationParticipant

\* IBM - rewrote specification

\*

\*\*\*\*\*/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/ThrownExceptionFinder.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/RecoveredVariableBinding.java

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* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
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* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/BindingKeyResolver.java

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\* Stephan Herrmann - Contribution for Bug 464615 - [dom] ASTParser.createBindings() ignores parameterization  
of a method invocation  
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/BinaryLambdaMethod.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/LambdaFactory.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ResolvedLambdaExpression.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/BinaryLambdaExpression.java  
\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/LambdaMethod.java

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Found in path(s):

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/RecordAttribute.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/ComponentInfo.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IComponentInfo.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/DefaultStackMapFrame.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/AnnotationInfo.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/rewrite/ITrackedNodePosition.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ResolvedSourceField.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ResolvedSourceMethod.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/AnnotationComponentValue.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceAnnotationMethodInfo.java

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/IndexNamesRegistry.java

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* Contributors:
* IBM Corporation - initial API and implementation
* Vladimir Piskarev <pisv@1c.ru> - Building large Java element deltas is really slow -
https://bugs.eclipse.org/443928
*****/
```

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JavaElementDeltaBuilder.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* Bug 320841 - TypeConverters don't set enclosingType
* Bug 353474 - type converters should include more annotations
*****/
```

Found in path(s):

```
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/SourceTypeConverter.java
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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnModuleReference.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnModuleDeclaration.java  
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\* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
\*\*\*\*\*/

Found in path(s):

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/CodeSnippetSuperReference.java  
\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/CodeSnippetReturnStatement.java

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\* Stephan Herrmann - Contribution for

\* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables  
\* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda  
\*\*\*\*\*/

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/compiler/SourceElementNotifier.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/compiler/parser/TypeConverter.java

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* IBM Corporation - initial API and implementation
* Jesper Steen Møller <jesper@selskabet.org> - contributions for:
* Bug 531046: [10] ICodeAssist#codeSelect support for 'var'
*****/
```

Found in path(s):

```
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/codeassist/select/SelectionParser.java
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* Contributors:
* tyeung@bea.com - initial API and implementation
* IBM Corporation - changed interface to extend IBinding
* IBM Corporation - renamed from IResolvedMemberValuePair to IMemberValuePairBinding
*****/
```

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```
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/IMemberValuePairBinding.java
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\* Bug 425183 - [1.8][inference] make CaptureBinding18 safe  
\* Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis  
\*\*\*\*\*/

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\* Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see <https://bugs.eclipse.org/320618>

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/compiler/CompilerConfiguration.java

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\* Stephan Herrmann - Contribution for

\*     bug 401035 - [1.8] A few tests have started failing recently

\*     Jesper Steen Møller - Contributions for

\*             bug 529552 - [18.3] Add 'var' in completions

\*             Bug 529556 - [18.3] Add content assist support for 'var' as a type

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 \* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis  
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 jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnArgumentName.java  
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 \* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
 \* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's  
 work)  
 \* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic  
 bridge method  
 \* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation  
 \*  
 Stephan Herrmann - Contribution for  
 \* 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)  
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* Stephan Herrmann - Contributions for bug 215139 and bug 295894
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* Tal Lev-Ami - added package cache for zip files
* Stephan Herrmann - Contribution for
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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\*   mkaufman@bea.com - initial API and implementation  
\*   IBM - renamed from PreReconcileCompilationResult to ReconcileContext  
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\*  
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jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMemberValueName.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/codeassist/complete/AssistNodeParentAnnotationArrayInitializer.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/TypeParameterDeclarationMatch.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnAnnotationMemberValuePair.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/ClasspathAttribute.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnBreakStatement.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/DocumentAdapter.java

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\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/codeassist/select/SelectionOnPackageVisibilityReference.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/ModuleLocator.java

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\* IBM Corporation - added `getOption(String, boolean)`, `getOptions(boolean)` and `setOptions(Map)`

\* IBM Corporation - deprecated `getPackageFragmentRoots(IClasspathEntry)` and

\* `added findPackageFragmentRoots(IClasspathEntry)`

\* IBM Corporation - added `isOnClasspath(IResource)`

\* IBM Corporation - added `setOption(String, String)`

\* IBM Corporation - added `forceClasspathReload(IProgressMonitor)`

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\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JarEntryResource.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/JavaModelException.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/JavaSearchDocument.java

\*

/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JarEntryDirectory.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/eval/CodeSnippetEvaluator.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/eval/RequestorWrapper.java

\* /org-eclipse-jdt-core-3-40-0-sources-

jar/org/eclipse/jdt/internal/core/search/matching/MemberDeclarationVisitor.java

\* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/ConstructorLocator.java

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\* Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters

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\* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

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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 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*****/

```

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* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
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\* IBM Corporation - added J2SE 1.5 support

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\* IBM Corporation - added constant AccDefault

\* IBM Corporation - added constants AccBridge and AccVarargs for J2SE 1.5

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\* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -  
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```

* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CreateTypeMemberOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/ClasspathMultiDirectory.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/JavaConventions.java
* /org-eclipse-jdt-core-3-40-0-sources-
jar/org/eclipse/jdt/internal/codeassist/complete/CompletionOnJavadocTag.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/hierarchy/HierarchyBuilder.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/util/SimpleDocument.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IClassFileReader.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceTypeElementInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/AbstractIndexer.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CompilationUnitStructureRequestor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/JavaModelOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SelectionRequestor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/DeleteElementsOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/BinaryIndexer.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/ClassFileMatchLocator.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SourceFieldElementInfo.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/compiler/SourceElementParser.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/BindingResolver.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/matching/LocalVariableLocator.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/CreateElementInCUOperation.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/BinaryField.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/compiler/ISourceElementRequestor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IPermittedSubclassesAttributeEntry.java
*
/org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/search/IJavaSearchConstants.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/jdom/SimpleDOMBuilder.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/SearchableEnvironmentRequestor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/search/indexing/SourceIndexerRequestor.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/util/IPermittedSubclassesAttribute.java
* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/internal/core/builder/ClasspathDirectory.java
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* Stephan Herrmann - contribution for bug 337868 - [compiler][model] incomplete support for package-info.java

```

when using SearchableEnvironment

\* Microsoft Corporation - contribution for bug 575562 - improve completion search performance

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
* Jesper Steen Moeller - Contribution for
* Bug 406973 - [compiler] Parse MethodParameters attribute
*****/

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* /org-eclipse-jdt-core-3-40-0-sources-jar/org/eclipse/jdt/core/dom/QualifiedType.java

```

## 1.374 error\_prone\_annotations 2.3.4

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- \* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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- \* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CheckReturnValue.java
- \* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotCall.java
- \*

/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/MustBeClosed.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompatibleWith.java
*
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotMock.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/FormatMethod.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/FormatString.java
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* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Immutable.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/ForOverride.java
*
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Var.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

```

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## 1.378 jaxb-runtime 2.3.1

## 1.379 dnsjava 3.6.3

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\* /slf4j-jdk14-1-5-6-sources-1-jar/org/slf4j/impl/JDK14LoggerAdapter.java  
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## 1.384 bouncycastle-fips 2.0.0

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Other developers who have contributed code are:

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# 1.391 caffeine 2.9.3

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Found in path(s):

- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/TimerWheel.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Expiry.java

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Found in path(s):

- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncCacheLoader.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CaffeineSpec.java

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Found in path(s):

```

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

```

* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Weigher.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/UnsafeAccess.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/StatsCounter.java
*
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/ConcurrentStatsCounter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LinkedDeque.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Policy.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WriteOrderDeque.java

```

```

* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/UnboundedLocalCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalListener.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CacheLoader.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Cache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AbstractLinkedDeque.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/CacheStats.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Ticker.java
*
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AccessOrderDeque.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedLocalCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Caffeine.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/DisabledStatsCounter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/base/UnsafeAccess.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalCause.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/SingleConsumerQueue.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/MpscGrowArrayQueue.java
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\* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/StripedBuffer.java

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Found in path(s):

\* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Scheduler.java

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Found in path(s):

```
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/base/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WriteThroughEntry.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Buffer.java
*
/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CacheWriter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/GuardedStatsCounter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FrequencySketch.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Node.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/References.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedBuffer.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalAsyncLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalManualCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SerializationProxy.java
*
/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Async.java
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```
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMWAWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMSA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDWMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWA.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSMWR.java
*
/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FWMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMWWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMWWR.java
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\* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMWAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMSAR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILSMWAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSMSAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PSMS.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSMWA.java  
 \*  
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIS.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSS.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMSAWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSMSAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMWAWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMWAWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMWAR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDAWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMWAWR.java  
 \*  
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAWMW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMSAR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMSA.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMWWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FSAWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PSWRMW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILAR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMWAR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDWRMW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMWW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PSAWMS.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIMSAW.java  
 \*  
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILSAW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSMWAR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDAR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDWRMW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMWWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMWWR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSMSR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSSMW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILR.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWWMS.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSMWW.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PDMS.java  
 \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMSW.java

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- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDARMW.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMSA.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMSAW.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMSR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILMWAWR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIW.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSMWAWR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMSAWR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSSMSR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILA.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SIAR.java
- \*
- /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLAR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalCacheFactory.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWWRMW.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SISMWA.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSAW.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSMSA.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILSMWAR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSMWR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDARMS.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSMW.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMWAWR.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWMS.java
- \* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLSAR.java
- \*

```

/caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SILSMWWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLMWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FDAWRMW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SSLMWAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FWAWRMS.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WS.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMSAW.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PWAMS.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLSAR.java

```

# 1.392 commons-net 3.8.0

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# 1.395 javassist 3.18.2-GA

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```

Found in path(s):

```
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
*
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java
```

```

* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
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```

```

/*
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```

Found in path(s):

```

* /javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformReadField.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/MethodHandler.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LocalVariableTypeAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Analyzer.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/Bytecode.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/CodeAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/ClassMap.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/ByteArrayClassPath.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/InnerClassesAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/runtime/DotClass.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/Cast.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtConstructor.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtArray.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/FieldDecl.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/Handler.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/AccessorMaker.java
*

```

```

/javassist-3-18-2-ga-sources-5-jar/javassist/CtNewClass.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Keyword.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformCall.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/TypeTag.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/JvstCodeGen.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Pair.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/InstanceOfExpr.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/Loader.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformBefore.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/TypeData.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ConstantAttribute.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/tools/web/Viewer.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtNewConstructor.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/StringL.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/StackMap.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/ClassPool.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/URLClassPath.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/BadBytecode.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/TypedBlock.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/DeprecatedAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/Translator.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/InstanceOf.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/CompileError.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ExceptionTable.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/Metalevel.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/NewArray.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/MethodFilter.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/SourceFileAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/SubroutineScanner.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Frame.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/ClassClassPath.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/CastExpr.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/SerializedProxy.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPool.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/expr/ConstructorCall.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtField.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/Modifier.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/MultiType.java

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- \* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformNew.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/CodeIterator.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/CtPrimitiveType.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationImpl.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/DoubleConst.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/AssignExpr.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/Loader.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ExceptionsAttribute.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/Proxy.java
- \*
- /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformFieldAccess.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/BasicBlock.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformWriteField.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Expr.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/AttributeInfo.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/Sample.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/NotFoundException.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/FramePrinter.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/Proxy.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/CannotCreateException.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/ControlFlow.java
- \*
- /javassist-3-18-2-ga-sources-5-jar/javassist/CtClass.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ByteArray.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/Lex.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/CannotCompileException.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/MethodInfo.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/ExprEditor.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/Reflection.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/runtime/Desc.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/AppletServer.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/web/Webserver.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/DuplicateMemberException.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/IntConst.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/Transformer.java
- \*
- /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/InstructionPrinter.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/AccessFlag.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/NewExpr.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/SoftValueHashMap.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Symbol.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/AnnotationsAttribute.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/AnnotationDefaultAttribute.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/FactoryHelper.java

- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/NoSuchClassError.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/SignatureAttribute.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
- \*
- /javassist-3-18-2-ga-sources-5-jar/javassist/CtNewNestedClass.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/Javac.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/CannotInvokeException.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/KeywordTable.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/ASTree.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/StubGenerator.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LocalVariableAttribute.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ClassFilePrinter.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/framedump.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/stackmap/Tracer.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/CtMethod.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/FieldInfo.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/Parser.java
- \*
- /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Util.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/web/BadHttpRequest.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/CtNewMethod.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/Descriptor.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/BinExpr.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/NoFieldException.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/IntQueue.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/RuntimeSupport.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/CondExpr.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/ObjectImporter.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/ClassPoolTail.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Variable.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/Opcodes.java
- \*
- /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/CannotReflectException.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/util/HotSwapper.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/SerialVersionUID.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/CodeConverter.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Executor.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/CodeAnalyzer.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/runtime/Inner.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/NewExpr.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/TypeChecker.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/CtClassType.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/Sample.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Visitor.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/ProxyObject.java
- \* /javassist-3-18-2-ga-sources-5-jar/javassist/ClassPath.java
- \*



```

/javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/ClassMetaobject.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/RemoteRef.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/JvstTypeChecker.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LongVector.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/CallExpr.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/MethodCall.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/MemberCodeGen.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/LoaderClassPath.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/Dump.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/runtime/Cflow.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/SymbolTable.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Stmnt.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/analysis/Subroutine.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformNewClass.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ClassFile.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/LineNumberAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/Compiler.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ByteStream.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/MemberResolver.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ProceedHandler.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/convert/TransformAfter.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/SyntaxError.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/ast/Member.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/TokenId.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/tools/reflect/Metaobject.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/FieldAccess.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/compiler/CodeGen.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/SyntheticAttribute.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/expr/Expr.java
*
/javassist-3-18-2-ga-sources-5-jar/javassist/bytecode/ConstPool.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtMember.java
* /javassist-3-18-2-ga-sources-5-jar/javassist/CtBehavior.java

```

# 1.396 jetty-jndi 9.4.57.v20241219

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

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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  
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

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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

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# 1.403 tomcat-dbcp 9.0.111

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# 1.404 nssm 2.24

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```
@echo>>version.h.new #define NSSM_COPYRIGHT _T("Public Domain; Author Iain Patterson 2003-%year%")
```

Found in path(s):

```
* /nssm-2-24-1-zip/nssm-2.24/src/version.cmd
```

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NSSM: The Non-Sucking Service Manager  
Version 2.24, 2014-08-31

NSSM is a service helper program similar to srvany and cygrunsrv. It can start any application as an NT service and will restart the service if it fails for any reason.

NSSM also has a graphical service installer and remover.

Full documentation can be found online at

<http://nssm.cc/>

Since version 2.0, the GUI can be bypassed by entering all appropriate options on the command line.

Since version 2.1, NSSM can be compiled for x64 platforms.  
Thanks Benjamin Mayrargue.

Since version 2.2, NSSM can be configured to take different actions based on the exit code of the managed application.

Since version 2.3, NSSM logs to the Windows event log more elegantly.

Since version 2.5, NSSM respects environment variables in its parameters.

Since version 2.8, NSSM tries harder to shut down the managed application gracefully and throttles

restart attempts if the application doesn't run for a minimum amount of time.

Since version 2.11, NSSM respects srvany's AppEnvironment parameter.

Since version 2.13, NSSM is translated into French.  
Thanks François-Régis Tardy.

Since version 2.15, NSSM is translated into Italian.  
Thanks Riccardo Gusmeroli.

Since version 2.17, NSSM can try to shut down console applications by simulating a Control-C keypress. If they have installed a handler routine they can clean up and shut down gracefully on receipt of the event.

Since version 2.17, NSSM can redirect the managed application's I/O streams to an arbitrary path.

Since version 2.18, NSSM can be configured to wait a user-specified amount of time for the application to exit when shutting down.

Since version 2.19, many more service options can be configured with the GUI installer as well as via the registry.

Since version 2.19, NSSM can add to the service's environment by setting AppEnvironmentExtra in place of or in addition to the srvany-compatible AppEnvironment.

Since version 2.22, NSSM can set the managed application's process priority and CPU affinity.

Since version 2.22, NSSM can apply an unconditional delay before restarting an application which has exited.

Since version 2.22, NSSM can rotate existing output files when redirecting I/O.

Since version 2.22, NSSM can set service display name, description, startup type, log on details and dependencies.

Since version 2.22, NSSM can manage existing services.

## Usage

-----

In the usage notes below, arguments to the program may be written in angle brackets and/or square brackets. <string> means you must insert the appropriate string and [`<string>`] means the string is optional. See the



examples below...

Note that everywhere <servicename> appears you may substitute the service's display name.

#### Installation using the GUI

-----

To install a service, run

```
nssm install <servicename>
```

You will be prompted to enter the full path to the application you wish to run and any command line options to pass to that application.

Use the system service manager (services.msc) to control advanced service properties such as startup method and desktop interaction. NSSM may support these options at a later time...

#### Installation using the command line

-----

To install a service, run

```
nssm install <servicename> <application> [<options>]
```

NSSM will then attempt to install a service which runs the named application with the given options (if you specified any).

Don't forget to enclose paths in "quotes" if they contain spaces!

If you want to include quotes in the options you will need to """"quote"""" the quotes.

#### Managing the service

-----

NSSM will launch the application listed in the registry when you send it a start signal and will terminate it when you send a stop signal. So far, so much like srwany. But NSSM is the Non-Sucking service manager and can take action if/when the application dies.

With no configuration from you, NSSM will try to restart itself if it notices that the application died but you didn't send it a stop signal. NSSM will keep trying, pausing between each attempt, until the service is successfully started or you send it a stop signal.

NSSM will pause an increasingly longer time between subsequent restart attempts if the service fails to start in a timely manner, up to a maximum of four minutes. This is so it does not consume an excessive amount of CPU time trying to start a failed application over and over again. If you identify the cause of the failure and don't want to wait you can use the Windows service console (where the service will be shown in Paused state) to send a continue signal to NSSM and it will retry within a few seconds.

By default, NSSM defines "a timely manner" to be within 1500 milliseconds. You can change the threshold for the service by setting the number of milliseconds as a REG\_DWORD value in the registry at  
HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters\AppThrottle.

Alternatively, NSSM can pause for a configurable amount of time before attempting to restart the application even if it successfully ran for the amount of time specified by AppThrottle. NSSM will consult the REG\_DWORD value at HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters\AppRestartDelay for the number of milliseconds to wait before attempting a restart. If AppRestartDelay is set and the application is determined to be subject to throttling, NSSM will pause the service for whichever is longer of the configured restart delay and the calculated throttle period.

If AppRestartDelay is missing or invalid, only throttling will be applied.

NSSM will look in the registry under  
HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters\AppExit for string (REG\_EXPAND\_SZ) values corresponding to the exit code of the application. If the application exited with code 1, for instance, NSSM will look for a string value under AppExit called "1" or, if it does not find it, will fall back to the AppExit (Default) value. You can find out the exit code for the application by consulting the system event log. NSSM will log the exit code when the application exits.

Based on the data found in the registry, NSSM will take one of three actions:

If the value data is "Restart" NSSM will try to restart the application as described above. This is its default behaviour.

If the value data is "Ignore" NSSM will not try to restart the application but will continue running itself. This emulates the (usually undesirable) behaviour of srvc. The Windows Services console would show the service as still running even though the application has exited.

If the value data is "Exit" NSSM will exit gracefully. The Windows Services console would show the service as stopped. If you wish to provide

finer-grained control over service recovery you should use this code and edit the failure action manually.

Please note that Windows versions prior to Vista will not consider such an exit to be a failure. On older versions of Windows you should use "Suicide" instead.

If the value data is "Suicide" NSSM will simulate a crash and exit without informing the service manager. This option should only be used for pre-Vista systems where you wish to apply a service recovery action. Note that if the monitored application exits with code 0, NSSM will only honour a request to suicide if you explicitly configure a registry key for exit code 0. If only the default action is set to Suicide NSSM will instead exit gracefully.

#### Application priority

-----

NSSM can set the priority class of the managed application. NSSM will look in the registry under HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters for the REG\_DWORD entry AppPriority. Valid values correspond to arguments to SetPriorityClass(). If AppPriority() is missing or invalid the application will be launched with normal priority.

#### Processor affinity

-----

NSSM can set the CPU affinity of the managed application. NSSM will look in the registry under HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters for the REG\_SZ entry AppAffinity. It should specify a comma-separated listed of zero-indexed processor IDs. A range of processors may optionally be specified with a dash. No other characters are allowed in the string.

For example, to specify the first; second; third and fifth CPUs, an appropriate AppAffinity would be 0-2,4.

If AppAffinity is missing or invalid, NSSM will not attempt to restrict the application to specific CPUs.

Note that the 64-bit version of NSSM can configure a maximum of 64 CPUs in this way and that the 32-bit version can configure a maximum of 32 CPUs even when running on 64-bit Windows.

#### Stopping the service

-----

When stopping a service NSSM will attempt several different methods of killing the monitored application, each of which

can be disabled if necessary.

First NSSM will attempt to generate a Control-C event and send it to the application's console. Batch scripts or console applications may intercept the event and shut themselves down gracefully. GUI applications do not have consoles and will not respond to this method.

Secondly NSSM will enumerate all windows created by the application and send them a WM\_CLOSE message, requesting a graceful exit.

Thirdly NSSM will enumerate all threads created by the application and send them a WM\_QUIT message, requesting a graceful exit. Not all applications' threads have message queues; those which do not will not respond to this method.

Finally NSSM will call TerminateProcess() to request that the operating system forcibly terminate the application. TerminateProcess() cannot be trapped or ignored, so in most circumstances the application will be killed. However, there is no guarantee that it will have a chance to perform any tidyup operations before it exits.

Any

or all of the methods above may be disabled. NSSM will look for the HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters\AppStopMethodSkip registry value which should be of type REG\_DWORD set to a bit field describing which methods should not be applied.

If AppStopMethodSkip includes 1, Control-C events will not be generated.

If AppStopMethodSkip includes 2, WM\_CLOSE messages will not be posted.

If AppStopMethodSkip includes 4, WM\_QUIT messages will not be posted.

If AppStopMethodSkip includes 8, TerminateProcess() will not be called.

If, for example, you knew that an application did not respond to Control-C events and did not have a thread message queue, you could set AppStopMethodSkip to 5 and NSSM would not attempt to use those methods to stop the application.

Take great care when including 8 in the value of AppStopMethodSkip. If NSSM does not call TerminateProcess() it is possible that the application will not exit when the service stops.

By default NSSM will

allow processes 1500ms to respond to each of the methods described above before proceeding to the next one. The timeout can be configured on a per-method basis by creating REG\_DWORD entries in the registry under HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters.

AppStopMethodConsole

AppStopMethodWindow

## AppStopMethodThreads

Each value should be set to the number of milliseconds to wait. Please note that the timeout applies to each process in the application's process tree, so the actual time to shutdown may be longer than the sum of all configured timeouts if the application spawns multiple subprocesses.

## Console window

-----

By default, NSSM will create a console window so that applications which are capable of reading user input can do so - subject to the service being allowed to interact with the desktop.

Creation of the console can be suppressed by setting the integer (REG\_DWORD) HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters\AppNoConsole registry value to 1.

## I/O redirection

-----

NSSM can redirect the managed application's I/O to any path capable of being opened by CreateFile(). This enables, for example, capturing the log output of an application which would otherwise only write to the console or accepting input from a serial port.

NSSM will look in the registry under HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters for the keys corresponding to arguments to CreateFile(). All are optional. If no path is given for a particular stream it will not be redirected. If a path is given but any of the other values are omitted they will be receive sensible defaults.

AppStdin: Path to receive input.

AppStdout: Path to receive output.

AppStderr: Path to receive error output.

Parameters for CreateFile() are providing with the "AppStdinShareMode", "AppStdinCreationDisposition" and "AppStdinFlagsAndAttributes" values (and analogously for stdout and stderr).

In general, if you want the service to log its output, set AppStdout and AppStderr to the same path, eg C:\Users\Public\service.log, and it should work. Remember, however, that the path must be accessible to the user running the service.

## File rotation

-----

When using I/O redirection, NSSM can rotate existing output files prior to opening stdout and/or stderr. An existing file will be renamed with a suffix based on the file's last write time, to millisecond precision. For example, the file `nssm.log` might be rotated to `nssm-20131221T113939.457.log`.

NSSM will look in the registry under `HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters` for `REG_DWORD` entries which control how rotation happens.

If `AppRotateFiles` is missing or set to 0, rotation is disabled. Any non-zero value enables rotation.

If `AppRotateSeconds` is non-zero, a file will not be rotated if its last write time is less than the given number of seconds in the past.

If `AppRotateBytes` is non-zero, a file will not be rotated if it is smaller than the given number of bytes. 64-bit file sizes can be handled by setting a non-zero value of `AppRotateBytesHigh`.

Rotation is independent of the `CreateFile()` parameters used to open the files. They will be rotated regardless of whether NSSM would otherwise have appended or replaced them.

NSSM can also rotate files which hit the configured size threshold while the service is running. Additionally, you can trigger an on-demand rotation by running the command

```
nssm rotate <servicename>
```

On-demand rotations will happen after the next line of data is read from the managed application, regardless of the value of `AppRotateBytes`. Be aware that if the application is not particularly verbose the rotation may not happen for some time.

To enable online and on-demand rotation, set `AppRotateOnline` to a non-zero value.

Note that online rotation requires NSSM to intercept the application's I/O and create the output files on its behalf. This is more complex and error-prone than simply redirecting the I/O streams before launching the application. Therefore online rotation is not enabled by default.

## Environment variables

-----  
NSSM can replace or append to the managed application's environment. Two multi-valued string (REG\_MULTI\_SZ) registry values are recognised under HKLM\SYSTEM\CurrentControlSet\Services\<service>\Parameters.

AppEnvironment defines a list of environment variables which will override the service's environment. AppEnvironmentExtra defines a list of environment variables which will be added to the service's environment.

Each entry in the list should be of the form KEY=VALUE. It is possible to omit the VALUE but the = symbol is mandatory.

Environment variables listed in both AppEnvironment and AppEnvironmentExtra are subject to normal expansion, so it is possible, for example, to update the system path by setting "PATH=C:\bin;%PATH%" in AppEnvironmentExtra. Variables are expanded in the order in which they appear, so if you want to include the value of one variable in another variable you should declare the dependency first.

Because variables defined in AppEnvironment override the existing environment it is not possible to refer to any variables which were previously defined.

For example, the following AppEnvironment block:

```
PATH=C:\Windows\System32;C:\Windows
PATH=C:\bin;%PATH%
```

Would result in a PATH of "C:\bin;C:\Windows\System32;C:\Windows" as expected.

Whereas the following AppEnvironment block:

```
PATH=C:\bin;%PATH%
```

Would result in a path containing only C:\bin and probably cause the application to fail to start.

Most people will want to use AppEnvironmentExtra exclusively. `srvany` only supports AppEnvironment.

Managing services using the GUI

-----  
NSSM can edit the settings of existing services with the same GUI that is used to install them. Run

```
nssm edit <servicename>
```

to bring up the GUI.

NSSM offers limited editing capabilities for services other than those which run NSSM itself. When NSSM is asked to edit a service which does not have the App\* registry settings described above, the GUI will allow editing only system settings such as the service display name and description.

#### Managing services using the command line

-----

NSSM can retrieve or set individual service parameters from the command line. In general the syntax is as follows, though see below for exceptions.

```
nssm get <servicename> <parameter>
```

```
nssm set <servicename> <parameter> <value>
```

Parameters can also be reset to their default values.

```
nssm reset <servicename> <parameter>
```

The parameter names recognised by NSSM are the same as the registry entry names described above, eg AppDirectory.

NSSM offers limited editing capabilities for Services other than those which run NSSM itself. The parameters recognised are as follows:

Description: Service description.

DisplayName: Service display name.

ImagePath: Path

to the service executable.

ObjectName: User account which runs the service.

Name: Service key name.

Start: Service startup type.

Type: Service type.

These correspond to the registry values under the service's key HKLM\SYSTEM\CurrentControlSet\Services\<service>.

Note that NSSM will concatenate all arguments passed on the command line with spaces to form the value to set. Thus the following two invocations would have the same effect.

```
nssm set <servicename> Description "NSSM managed service"
```



nssm set <servicename> Description NSSM managed service

#### Non-standard parameters

-----

The AppEnvironment and AppEnvironmentExtra parameters recognise an additional argument when querying the environment. The following syntax will print all extra environment variables configured for a service

nssm get <servicename> AppEnvironmentExtra

whereas the syntax below will print only the value of the CLASSPATH variable if it is configured in the environment block,  
or the empty string  
if it is not configured.

nssm get <servicename> AppEnvironmentExtra CLASSPATH

When setting an environment block, each variable should be specified as a KEY=VALUE pair in separate command line arguments. For example:

nssm set <servicename> AppEnvironment CLASSPATH=C:\Classes TEMP=C:\Temp

The AppExit parameter requires an additional argument specifying the exit code to get or set. The default action can be specified with the string Default.

For example, to get the default exit action for a service you should run

nssm get <servicename> AppExit Default

To get the exit action when the application exits with exit code 2, run

nssm get <servicename> AppExit 2

Note that if no explicit action is configured for a specified exit code, NSSM will print the default exit action.

To set configure the service to stop when the application exits with an exit code of 2, run

nssm set <servicename> AppExit 2 Exit

The AppPriority parameter is used to  
set the priority class of the  
managed application. Valid priorities are as follows:

REALTIME\_PRIORITY\_CLASS  
HIGH\_PRIORITY\_CLASS  
ABOVE\_NORMAL\_PRIORITY\_CLASS  
NORMAL\_PRIORITY\_CLASS  
BELOW\_NORMAL\_PRIORITY\_CLASS  
IDLE\_PRIORITY\_CLASS

The DependOnGroup and DependOnService parameters are used to query or set the dependencies for the service. When setting dependencies, each service or service group (preceded with the + symbol) should be specified in separate command line arguments. For example:

```
nssm set <servicename> DependOnService RpcSs LanmanWorkstation
```

The Name parameter can only be queried, not set. It returns the service's registry key name. This may be useful to know if you take advantage of the fact that you can substitute the service's display name anywhere where the syntax calls for <servicename>.

The ObjectName parameter requires an additional argument only when setting a username. The additional argument is the password of the user.

To retrieve the username,  
run

```
nssm get <servicename> ObjectName
```

To set the username and password, run

```
nssm set <servicename> ObjectName <username> <password>
```

Note that the rules of argument concatenation still apply. The following invocation is valid and will have the expected effect.

```
nssm set <servicename> ObjectName <username> correct horse battery staple
```

The following well-known usernames do not need a password. The password parameter can be omitted when using them:

"LocalSystem" aka "System" aka "NT Authority\System"  
"LocalService" aka "Local Service" aka "NT Authority\Local Service"  
"NetworkService" aka "Network Service" aka "NT Authority\Network Service"

The Start parameter is used to query or set the startup type of the service.

Valid service startup types are as follows:

SERVICE\_AUTO\_START: Automatic startup at boot.

SERVICE\_DELAYED\_START: Delayed startup at boot.

SERVICE\_DEMAND\_START: Manual service startup.

SERVICE\_DISABLED: The service is disabled.

Note that

SERVICE\_DELAYED\_START is not supported on versions of Windows prior to Vista. NSSM will set the service to automatic startup if delayed start is unavailable.

The Type parameter is used to query or set the service type. NSSM recognises all currently documented service types but will only allow setting one of two types:

SERVICE\_WIN32\_OWN\_PROCESS: A standalone service. This is the default.

SERVICE\_INTERACTIVE\_PROCESS: A service which can interact with the desktop.

Note that a service may only be configured as interactive if it runs under the LocalSystem account. The safe way to configure an interactive service is in two stages as follows.

```
nssm reset <servicename> ObjectName
```

```
nssm set <servicename> Type SERVICE_INTERACTIVE_PROCESS
```

Controlling services using the command line

-----

NSSM offers rudimentary service control features.

```
nssm start <servicename>
```

```
nssm restart <servicename>
```

```
nssm stop <servicename>
```

```
nssm
```

```
status <servicename>
```

Removing services using the GUI

-----

NSSM can also remove services. Run

```
nssm remove <servicename>
```

to remove a service. You will prompted for confirmation before the service is removed. Try not to remove essential system services...

#### Removing service using the command line

-----

To remove a service without confirmation from the GUI, run

```
nssm remove <servicename> confirm
```

Try not to remove essential system services...

#### Logging

-----

NSSM logs to the Windows event log. It registers itself as an event log source and uses unique event IDs for each type of message it logs. New versions may add event types but existing event IDs will never be changed.

Because of the way NSSM registers itself you should be aware that you may not be able to replace the NSSM binary if you have the event viewer open and that running multiple instances of NSSM from different locations may be confusing if they are not all the same version.

#### Example usage

-----

To install an Unreal Tournament server:

```
nssm install UT2004 c:\games\ut2004\system\ucc.exe server
```

To run the server as the "games" user:

```
nssm set UT2004 ObjectName games password
```

To configure the server to log to a file:

```
nssm set UT2004 AppStdout c:\games\ut2004\service.log
```

To restrict the server to a single CPU:

```
nssm set UT2004 AppAffinity 0
```

To remove the server:

```
nssm remove UT2004 confirm
```

To find out the service name of a service with a display name:

```
nssm get "Background Intelligent Transfer Service" Name
```

## Building NSSM from source

-----

NSSM is known to compile with Visual Studio 2008 and later. Older Visual Studio releases may or may not work if you install an appropriate SDK and edit the nssm.vcproj and nssm.sln files to set a lower version number.

They are known not to work with default settings.

NSSM will also compile with Visual Studio 2010 but the resulting executable will

not run on versions of Windows older than XP SP2. If you require compatibility with older Windows releases you should change the Platform Toolset to v90 in the General section of the project's Configuration Properties.

## Credits

-----

Thanks to Bernard Loh for finding a bug with service recovery.

Thanks to Benjamin Mayrargue ([www.softlion.com](http://www.softlion.com)) for adding 64-bit support.

Thanks to Joel Reingold for spotting a command line truncation bug.

Thanks to Arve Knudsen for spotting that child processes of the monitored application could be left running on service shutdown, and that a missing registry value for AppDirectory confused NSSM.

Thanks to Peter Wagemans and Laszlo Keresztfalvi for suggesting throttling restarts.

Thanks to Eugene Lifshitz for finding an edge case in CreateProcess() and for advising how to build messages.mc correctly in paths containing spaces.

Thanks to Rob Sharp for pointing out that NSSM did not respect the AppEnvironment registry value used by srvany.

Thanks

to Szymon Nowak for help with Windows 2000 compatibility.

Thanks to François-Régis Tardy and Gildas le Nadan for French translation.

Thanks to Emilio Frini for spotting that French was inadvertently set as the default language when the user's display language was not translated.

Thanks to Riccardo Gusmeroli and Marco Certelli for Italian translation.

Thanks to Eric Cheldelin for the inspiration to generate a Control-C event on shutdown.

Thanks to Brian Baxter for suggesting how to escape quotes from the command prompt.

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Thanks to Andrew RedzMax for suggesting an unconditional restart delay.

Thanks to Bryan Senseman for noticing that applications with redirected stdout and/or stderr which attempt to read from stdin would fail.

Thanks to Czenda Czendov for help with Visual Studio 2013 and Server 2012R2.

Thanks to Alessandro Gherardi for reporting and draft fix of the bug whereby the second restart of the application would have a corrupted environment.

Thanks to Hadrien Kohl for suggesting to disable the console window's menu.

Thanks to Allen Vaillencourt for noticing bugs with configuring the service to run under a local user account.

Thanks to Sam Townsend for noticing a regression with TerminateProcess().

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## 1.405 policy 2.3.1

## 1.406 asm 9.7.1

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- \* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassTooLargeException.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/ConstantDynamic.java
- \*
- /asm-9-7-1-sources-jar/org/objectweb/asm/Attribute.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/TypeReference.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassVisitor.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/MethodTooLargeException.java
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- \* /asm-9-7-1-sources-jar/org/objectweb/asm/Constants.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/FieldWriter.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/RecordComponentVisitor.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/MethodVisitor.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/ModuleVisitor.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/SymbolTable.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/Symbol.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/Frame.java
- \*
- /asm-9-7-1-sources-jar/org/objectweb/asm/ByteVector.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/Context.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/AnnotationWriter.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/RecordComponentWriter.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/MethodWriter.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassWriter.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/ClassReader.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/signature/SignatureReader.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/Edge.java
- \* /asm-9-7-1-sources-jar/org/objectweb/asm/Handler.java
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- \* /asm-9-7-1-sources-jar/org/objectweb/asm/FieldVisitor.java

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- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_text.java
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- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/SrcOp.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
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- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/misc/MutableInt.java

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- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
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- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_start.java
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\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/dbg.java  
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 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java  
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 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_stop.java  
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 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/automata/ATNVisitor.java  
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 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/ParserFactory.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/analysis/LeftRecursionDetector.java  
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 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java  
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 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/automata/ATNFactory.java  
 \*  
 /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_channel.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/LabelType.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/automata/ATNPrinter.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/TokenVocabParser.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/semantics/SemanticPipeline.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/Wildcard.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/VisitorFile.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java  
 \*  
 /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/ScopeParser.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/Alternative.java  
 \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java

- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/ModelElement.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/OutputFile.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ANTLRToolListener.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/ToolANTLRParser.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/v4ParserException.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/AltBlock.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/BlockAST.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/OutputModelObject.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/TestSetInline.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/misc/Graph.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ErrorType.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/Loop.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_text.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ErrorSeverity.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_index.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/Grammar.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_line.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_int.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/automata/ATNOptimizer.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_text.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/Choice.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/automata/ParserATNFactory.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/AttributeDict.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/ActionTranslator.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/Decl.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/AddToLabelList.java

- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/DefaultToolListener.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/OutputModelWalker.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_start.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/SemPred.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ErrorMessage.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/RetValRef.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/SetAST.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/Attribute.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/LexerFactory.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/semantics/SymbolChecks.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/misc/Utils.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/DOTGenerator.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/AttributeResolver.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/ListenerFile.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/LabelElementPair.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/Target.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValRef.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/ActionAST.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/RuleRefAST.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
- \*
- /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/OutputModelController.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/MatchNotSet.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_pos.java
- \* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/ToolMessage.java

```

* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java
*
/antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/Lexer.java
* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
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```

```

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*/

```

```
lexer grammar ActionSplitter;
```

```
options { filter=true; }
```

```

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

```

```

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
 this(input, new RecognizerSharedState());
 this.delegate = delegate;
}

/** force filtering (and
return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
 List<Token> chunks = new ArrayList<Token>();
 Token t = nextToken();
 while (t.getType()!=Token.EOF) {
 chunks.add(t);
 t = nextToken();
 }
 return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
: '/' (options {greedy=false;} : .)* '/' {delegate.text($text);}
;

LINE_COMMENT
: '/' ~('\n'|\r')* '\r'? '\n' {delegate.text($text);}
;

SET_NONLOCAL_ATTR
: '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
 delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

NONLOCAL_ATTR
: '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR

```



```
: '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;
```

SET\_ATTR

```
: '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
 delegate.setAttr($text, $x, $expr);
}
;
```

ATTR

```
: '$'
x=ID {delegate.attr($text, $x);}
;
```

// Anything else is just random text

TEXT

```
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: (c=~("\\" '$') {buf.append((char)$c);}
| '\\' {buf.append('$');}
| '\\' c=~('$') {buf.append("\\").append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
)+
;
```

fragment

```
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;
```

/\*\* Don't allow an = as first char to prevent \$x == 3; kind of stuff. \*/

fragment

```
ATTR_VALUE_EXPR
: ~'=' (~';')*
;
```

fragment

```
WS : ('\\t'|'\\n'|'\\r')+
;
```

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/ActionSplitter.g

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 \*/

/\*\* templates used to generate make-compatible dependencies \*/

/\*\* Generate "f : x, y, z" dependencies for input  
 \* dependencies and generated files. in and out  
 \* are File objects. For example, you can say  
 \* <f.canonicalPath>  
 \*/  
 dependencies(grammarFileName,in,out) ::= <<  
 <if(in)><grammarFileName>: <in; separator=", "><endif>  
 <out:{f | <f> : <grammarFileName>}; separator="\n">  
 >>

Found

in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/templates/depend.stg

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 \*/

```
javaTypeInitMap ::= [
 "int": "0",
 "long": "0",
 "float": "0.0f",
 "double": "0.0",
 "boolean": "false",
 "byte": "0",
 "short": "0",
 "char": "0",
 default: "null" // anything other than a primitive type is an object
]
```

// args must be <object-model-object>, <fields-resulting-in-STs>

```
ParserFile(file, parser, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package
 <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>
```

```
ListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
```

```

import org.antlr.v4.runtime.misc.NotNull;
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
 * This interface defines a complete listener for a parse tree produced by
 * {@link <file.parserName>}.
 */
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames>{<lname |
/**
<if(file.listenerLabelRuleNames.<lname>)>
 * Enter a parse tree produced by the {@code <lname>}
 * labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.<lname>}>}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>}.
<endif>
 * @param ctx the parse tree
 */
void enter<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.<lname>)>
 * Exit a parse tree produced by the {@code <lname>}
 * labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.<lname>}>}.
<else>
 * Exit a parse tree produced by {@link <file.parserName>#<lname>}.
<endif>
 * @param ctx the parse tree
 */
void exit<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context ctx));
separator="\n"
}
>>

BaseListenerFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.misc.NotNull;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
 * This class

```

```

 provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
 public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 @Override public void enter<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context
 ctx) { \}
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 @Override public void exit<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context
 ctx) { \} }; separator="\n">

 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 @Override public void enterEveryRule(@NotNull ParserRuleContext ctx) { }
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 @Override public void exitEveryRule(@NotNull
 ParserRuleContext ctx) { }
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 @Override public void visitTerminal(@NotNull TerminalNode node) { }
 /**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
 @Override public void visitErrorNode(@NotNull ErrorNode node) { }
 }
 >>

```

```

VisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.misc.NotNull;
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
 * This interface defines a complete generic visitor for a parse tree produced
 * by {@link <file.parserName>}.
 *
 * @param \<T> The return type of the visit operation. Use {@link Void} for
 * operations with no return type.
 */
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
 * Visit a parse
tree produced by the {@code <lname>}
 * labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>}.
<endif>
 * @param ctx the parse tree
 * @return the visitor result
 */
T visit<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context ctx));
separator="\n"
}
>>

```

```

BaseVisitorFile(file, header) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.misc.NotNull;
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
 * This class provides an empty implementation of {@link <file.grammarName>Visitor},
 * which can be extended to create a visitor which only needs to handle a subset
 * of the available methods.

```

```

*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public class <file.grammarName>BaseVisitor\<T>
 extends AbstractParseTreeVisitor\<T> implements <file.grammarName>Visitor\<T> {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(@NotNull <file.parserName>.<lname; format="cap">Context ctx)
{ return visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected
 static final PredictionContextCache _sharedContextCache =
 new PredictionContextCache();
 <if(parser.tokens)>
 public static final int
 <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 public static final String[] tokenNames = {
 <parser.tokenNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor>
 };
 public static final int
 <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 public static final String[] ruleNames = {
 <parser.ruleNames:{r | "<r>"; separator=", ", wrap, anchor>
 };

```



```

@Override
public String getGrammarFileName() { return "<parser.grammarFileName; format=\"java-escape\">"; }

@Override
public String[] getTokenNames() { return tokenNames; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public ATN getATN() { return _ATN; }

<namedActions.members>
<parser:(ctor)()>
<funcs;
separator="\n">

<if(sempredFuncs)>
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

<atn>
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>: <f.name>_action((<f.ctxType>)_localctx, actionIndex); break;}; separator="\n">
 }
 }
 <actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override

```

```

public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return true;
}
<sempredFuncs.values;
separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

```

```
<altLabelCtxs:{l | <altLabelCtxs.l>}; separator="\n">
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
 <a.name>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
 <if(currentRule.hasLookaheadBlock)>
 int _alt;
 <endif>
 <code>
 <postamble; separator="\n">
 <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
 _localctx.exception = re;
 _errHandler.reportError(this, re);
 _errHandler.recover(this, re);
 }
 <endif>
 finally {
 <finallyAction>
 exitRule();
 }
 return _localctx;
}
>>
```

```
LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble)
::=
<<
```

```
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.l>}; separator="\n">
```

```
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}
```

```
private <currentRule.ctxType> <currentRule.name>(int _p<args:{a | , <a>}>) throws RecognitionException {
```

```

ParserRuleContext _parentctx = _ctx;
int _parentState = getState();
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>);
<currentRule.ctxType> _prevctx = _localctx;
int _startState = <currentRule.startState>;
enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
<namedActions.init>
<locals; separator="\n">
try {
<if(currentRule.hasLookaheadBlock)>
 int _alt;
<endif>
 <code>
 <postamble; separator="\n">
 <namedActions.after>
}
catch
(RecognitionException re) {
 _localctx.exception = re;
 _errHandler.reportError(this, re);
 _errHandler.recover(this, re);
}
finally {
 <finallyAction>
 unrollRecursionContexts(_parentctx);
}
return _localctx;
}
>>

```

```

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

```

```

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

```

```

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);

```

```

< !_errHandler.sync(this);!>
< if(choice.label)>< labelref(choice.label)> = _input.LT(1);< endif>
< preamble; separator="\n">
switch (_input.LA(1))
{
< choice.altLook,alts:{look,alt| < cases(ttypes=look)>
< alt>
break;}; separator="\n">
default:
< error>
}
>>

```

```

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
< !_errHandler.sync(this);!>
switch (_input.LA(1)) {
< choice.altLook,alts:{look,alt| < cases(ttypes=look)>
< alt>
break;}; separator="\n">
default:
< error>
}
>>

```

```

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
< !_errHandler.sync(this);!>
< preamble; separator="\n">
if (<expr>) {
< alts; separator="\n">
}
< !else if (!(<followExpr>)) <error>!>
>>

```

```

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
< preamble; separator="\n">
while (<loopExpr>) {
< alts; separator="\n">
setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
< iteration>
}
>>

```

```

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<

```

```

setState(<choice.blockStartStateNumber>);
<! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while (<loopExpr>);
>>

```

// LL(\*) stuff

```

AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
< !_errHandler.sync(this); !>
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch (getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{ alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

```

```

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
< !_errHandler.sync(this); !>
switch (getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{ alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

```

```

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while
(_alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER) {
if (_alt==1<if(!choice.ast.greedy)>+1<endif>) {
 <iteration>
 <alts> <! should only be one !>
}
}

```

```

setState(<choice.loopBackStateNumber>);
_errHandler.sync(this);
_alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

```

```

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <!-- alt block decision -->
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
 <error>
 }
 setState(<choice.loopBackStateNumber>); <!-- loopback/exit decision -->
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while (_alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER);
>>

```

```

Sync(s) ::= "sync(<s.expecting.name>);"

```

```

ThrowNoViableAlt(t)
::= "throw new NoViableAltException(this);"

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>; separator=" || ">
>>

```

```

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(ttype, bits.shift)>)}); separator=" | ">)) != 0)
%>

```

```

isZero ::= [
"0":true,

```

```

default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s,
bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<ttypes:{t | case <t>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>); <if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>); <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
consume();
>>

Wildcard(w)
::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>matchWildcard();
>>

// ACTION STUFF

```



```

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
 setState(<p.stateNumber>);
 if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
 <failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
 catch (<catchArg>) {
 <catchAction>
 }
>>

// lexer actions are not associated with model objects

LexerSkipCommand() ::= "skip();"
LexerMoreCommand() ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg) ::= "_type = <arg>;"
LexerChannelCommand(arg) ::= "_channel = <arg>;"
LexerModeCommand(arg) ::= "_mode = <arg>;"
LexerPushModeCommand(arg) ::= "pushMode(<arg>;"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a)
 ::= "_localctx.<a.name>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"

```

```

TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
 ::= "<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r) ::=
 "<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r) ::= "<ctx(r)>.<r.label>"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r) ::= "_localctx.stop"
ThisRulePropertyRef_text(r) ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"

NonLocalAttrRef(s) ::= "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
 "(<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t)
 ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = new ArrayList<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t) ::=
 "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t) ::=
 "public List<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t) ::= <<
 public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
 }
>>

ContextRuleGetterDecl(r) ::= <<
 public <r.ctxName> <r.name>() {
 return getRuleContext(<r.ctxName>.class,0);
 }
>>

ContextRuleListGetterDecl(r) ::= <<
 public List<<r.ctxName>> <r.name>() {
 return getRuleContexts(<r.ctxName>.class);
 }
>>

```

```

ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName>
<r.name>(int i) {
return getRuleContext(<r.ctxName>.class,i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName) ::= "<ruleName>"
ImplicitSetLabel(id) ::= "_tset<id>"
ListLabelName(label) ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs, getters,dispatchMethods,interfaces,extensionMembers,
superClass={ParserRuleContext}) ::= <<
public static class <struct.name> extends <superClass><if(interfaces)> implements <interfaces; separator=",
"><endif> {
<attrs:{a | public <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">
<if(ctorAttrs)>public <struct.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
public
<struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
super(parent, invokingState);
<struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {
super.copyFrom(ctx);
<struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>;}; separator="\n">
 public <struct.name>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@Override
public
void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if (listener instanceof <parser.grammarName>Listener)
 ((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
@Override
public <T> T accept(ParseTreeVisitor<? extends T> visitor) {
 if (visitor instanceof <parser.grammarName>Visitor) return ((<parser.grammarName>Visitor<? extends
 T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

```

```

AttributeDecl(d) ::= "<d.type> <d.name>"

```

```

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.name>"

```

```

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

```

```

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec) ::= "precpred(_ctx,
 <opPrec>)"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken() ::= "_ctx.stop = _input.LT(-1);"

```

```

recRuleAltStartAction(ruleName, ctxName, label) ::= <<
 _localctx = new <ctxName>Context(_parentctx, _parentState);
 <if(label)>_localctx.<label> = _prevctx;<endif>
 pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```

```

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label) ::= <<
 _localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
 _parentState));
 <if(label)>((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;<endif>
 pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

```

```

recRuleReplaceContext(ctxName) ::= <<
 _localctx = new <ctxName>Context(_localctx);
 _ctx = _localctx;
 _prevctx = _localctx;
>>

```

```

recRuleSetPrevCtx() ::= <<
 if (_parseListeners!=null) triggerExitRuleEvent();
 _prevctx = _localctx;
>>

```

```

LexerFile(lexerFile, lexer,
 namedActions) ::= <<
 <fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
 <if(lexerFile.genPackage)>
 package <lexerFile.genPackage>;
 <endif>
 <namedActions.header>
 import org.antlr.v4.runtime.Lexer;
 import org.antlr.v4.runtime.CharStream;
 import org.antlr.v4.runtime.Token;
 import org.antlr.v4.runtime.TokenStream;
 import org.antlr.v4.runtime.*;
 import org.antlr.v4.runtime.atn.*;
 import org.antlr.v4.runtime.dfa.DFA;
 import org.antlr.v4.runtime.misc.*;

 <lexer>
>>

```

```

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
 @SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})
 public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
 new PredictionContextCache();
 public static final int
 <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator="

```

```

", wrap, anchor>;
<rest(lexer.modes){m| public static final int <m> = <i>;}; separator="\n">
public static String[] modeNames = {
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static final String[] tokenNames = {
 <lexer.tokenNames:{t | <t>}; null="\\"<INVALID>\\"", separator=", ", wrap, anchor>
};
public static final String[] ruleNames = {
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <lexer.name>(CharStream input) {
 super(input);
 _interp = new LexerATNSimulator(this, _ATN, _decisionToDFA, _sharedContextCache);
}

@Override
public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

@Override
public String[] getTokenNames() { return tokenNames; }

@Override
public String[] getRuleNames() { return ruleNames; }

@Override
public String getSerializedATN() { return _serializedATN; }

@Override
public String[] getModeNames() { return modeNames; }

@Override
public ATN getATN()
{ return _ATN; }

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
<atn>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;

```

```

<model.segments:{segment|private static final String _serializedATNSegment<i0> =
"<segment; wrap={"+<\n><\t>">";}; separator="\n">
public static final String _serializedATN = Utils.join(
new String[] {
<model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
},
""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
"<model.serialized; wrap={"+<\n><\t>">";
<endif>
public static final ATN _ATN =
new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
_decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
for (int i = 0; i < _ATN.getNumberOfDecisions(); i++) {
_decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
}
<! org.antlr.v4.tool.DOTGenerator
dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"

```

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg

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

```

/*
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```

```

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*/

```

```

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.

```

```

* Parses trees created by ANTLRParser.g.
*
* Rather than have multiple tree grammars, one for each visit, I'm
* creating this generic visitor that knows about context. All of the
* boilerplate pattern recognition is done here. Then, subclasses can
* override the methods they care about. This
* prevents a lot of the same
* context tracking stuff like "set current alternative for current
* rule node" that is repeated in lots of tree filters.
*/

```

```

tree grammar GrammarTreeVisitor;
options {
 language = Java;
 tokenVocab = ANTLRParser;
 ASTLabelType = GrammarAST;
}

```

```

// Include the copyright in this source and also the generated source
@header {
/*
[The "BSD license"]
Copyright (c) 2011 Terence Parr
All rights reserved.

```



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\*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.Method;
}
```

```
@members {
public String grammarName;
public GrammarAST currentRuleAST;
public
 String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
//public GrammarAST currentRuleBlock;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
```

```

setTreeNodeStream(nodes);
try {
 Method m = getClass().getMethod(ruleName);
 m.invoke(this);
}
catch (Exception e) {
 ErrorManager errMgr = getErrorManager();
 if (errMgr==null) {
 System.err.println("can't find rule "+ruleName+
 " or tree structure error: "+t.toStringTree()
);
 e.printStackTrace(System.err);
 }
 else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
}
}

public void discoverGrammar(GrammarRootAST
 root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
 ActionAST arg, ActionAST returns, GrammarAST thrws,
 GrammarAST options, ActionAST locals,
 List<GrammarAST> actions,
 GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST
 block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
 GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }

```

```

public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST
 ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST
 tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

```

```
protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }

protected void
 enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }
```

```
protected void enterLexerAlternative(GrammarAST tree)
{ }
protected void exitLexerAlternative(GrammarAST tree) { }
```

```
protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }
```

```
protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }
```

```
protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }
```

```
protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }
```

```
protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }
```

```
protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }
```

```
protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }
```

```
protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }
```

```
protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST
tree) { }
```

```
protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }
```

```
protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }
```

```
protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }
```

```
protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }
```

```
protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }
```

```
protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }
```

```
protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }
```

```
protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }
```

```
protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }
```

```
protected void enterSetElement(GrammarAST
tree) { }
protected void exitSetElement(GrammarAST tree) { }
```

```
protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }
```

```
protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }
```

```
protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }
```

```
protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }
```

```
protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }
```

```
protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }
```

```
@Override
public void traceIn(String ruleName, int ruleIndex) {
 System.err.println("enter "+ruleName+": "+input.LT(1));
}
```

```
@Override
public void traceOut(String ruleName, int ruleIndex) {
 System.err.println("exit "+ruleName+": "+input.LT(1));
}
}
```

```
grammarSpec
@init {
 enterGrammarSpec($start);
}
```

```

}
@after {
 exitGrammarSpec($start);
}
: ^(GRAMMAR ID {grammarName=$ID.text;} DOC_COMMENT?
 {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
 prequelConstructs
 {finishPrequels($prequelConstructs.firstOne);}
 rules mode*
 {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

```

prequelConstructs returns [GrammarAST firstOne=null]

```

@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

```

prequelConstruct

```

@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
: optionsSpec
| delegateGrammars
| tokensSpec
| action
;

```

optionsSpec

```

@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

```

option

```

@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
 if (block) blockOption($ID,
 $v.start); // most specific first
 else if (rule) ruleOption($ID, $v.start);
 else grammarOption($ID, $v.start);
}
;

```

optionValue returns [String v]

```

@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
 exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

```

delegateGrammars

```

@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
: ^(IMPORT delegateGrammar+)
;

```

delegateGrammar

```

@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}

```



```

| id=ID {importGrammar(null, $id);}
;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
: ^(TOKENS_SPEC tokenSpec+)
;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
: ID {defineToken($ID);}
;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
: ^(AT
sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
 enterMode($start);
}

```

```

@after {
 exitMode($start);
}
: ^(MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule*)
;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
: ^(RULE TOKEN_REF
 {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
 DOC_COMMENT? (^ (RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
 {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
 lexerRuleBlock
 {
 finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
 currentRuleName=null; currentRuleAST=null;
 }
)
;

rule
@init {
 enterRule($start);
 List<GrammarAST>
 mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
: ^(RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
 DOC_COMMENT? (^ (RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+)) ?
 ARG_ACTION?
 ret=ruleReturns?
 thr=throwsSpec?
 loc=locals?
 (opts=optionsSpec
 | a=ruleAction {actions.add($a.start);}
)*
 {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,

```

```

 $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
 $thr.start, $opts.start,
 $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
 actions, (GrammarAST)input.LT(1));}
ruleBlock exceptionGroup
{finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
)
;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after
{
 exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;

finallyClause
@init {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
: ^(LOCALS ARG_ACTION)

```

```

;

ruleReturns
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;

```

```

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
: ^(THROWS ID+)
;

```

```

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
: ^(AT ID ACTION)
;

```

```

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;

```

```

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}

```

```

}
@after {
 exitLexerRuleBlock($start);
}
: ^(BLOCK
 ({
 currentOuterAltRoot = (GrammarAST)input.LT(1);
 currentOuterAltNumber++;
 }
 lexerOuterAlternative
)+
)
;

```

```

ruleBlock
@init {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
: ^(BLOCK
 ({
 currentOuterAltRoot = (GrammarAST)input.LT(1);
 currentOuterAltNumber++;
 }
 outerAlternative
)+
)
;

```

```

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;

```

```

outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}

```

```

}
@after {
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
: alternative
;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after
{
 exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
| lexerElements
;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
: ^(ALT lexerElement+)
;

lexerElement
@init {
 enterLexerElement($start);
}
@after {
 exitLexerElement($start);
}
: labeledLexerElement
| lexerAtom
| lexerSubrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;

labeledLexerElement

```

```

@init {
 enterLabeledLexerElement($start);
}
@after {
 exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

```

```

lexerBlock
@init {
 enterLexerBlock($start);
}
@after {
 exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;

```

```

lexerAtom
@init {
 enterLexerAtom($start);
}
@after
{
 exitLexerAtom($start);
}
: terminal
| ^(\NOT blockSet)
| blockSet
| ^(\WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
;

```

```

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
: ACTION
| ^(\ACTION elementOptions)
| SEMPRED
| ^(\SEMPRED elementOptions)
;

```

alternative

```
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;
```

lexerCommand

```
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
 {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
 {lexerCommand(currentOuterAltNumber, $ID);}
;
```

lexerCommandExpr

```
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
: ID
| INT
;
```

element

```
@init
{
 enterElement($start);
}
@after {
 exitElement($start);
}
: labeledElement
| atom
```



```

| subrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

```

```

| ^(NOT blockSet)

```

```

| ^(NOT block)

```

```

;

```

astOperand

```

@init {
 enterAstOperand($start);
}

```

```

@after {
 exitAstOperand($start);
}

```

```

: atom

```

```

| ^(NOT blockSet)

```

```

| ^(NOT block)

```

```

;

```

labeledElement

```

@init {
 enterLabeledElement($start);
}

```

```

@after {
 exitLabeledElement($start);
}

```

```

: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}

```

```

;

```

subrule

```

@init {
 enterSubrule($start);
}

```

```

@after {
 exitSubrule($start);
}

```

```

: ^(blockSuffix block)

```

```

| block

```

```

;

```

lexerSubrule

```

@init {
 enterLexerSubrule($start);
}

```

```

@after {

```

```

exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;

```

```

blockSuffix
@init {
enterBlockSuffix($start);
}
@after
{
exitBlockSuffix($start);
}
: ebnfSuffix
;

```

```

ebnfSuffix
@init {
enterEbnfSuffix($start);
}
@after {
exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

```

```

atom
@init {
enterAtom($start);
}
@after {
exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;

```

```

blockSet
@init {
enterBlockSet($start);

```

```

}
@after {
 exitBlockSet($start);
}
: ^(SET setElement+)
;

setElement
@init {
 enterSetElement($start);
}
@after {
 exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
 stringRef((TerminalAST)$a);
 stringRef((TerminalAST)$b);
}
| LEXER_CHAR_SET
;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
 ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
 if ($arg!=null) actionInAlt((ActionAST)$arg);
}

```

```

;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
 {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
 enterElementOptions($start);
}
@after
{
 exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
: ID {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}

```

```
| ^ (ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;
```

Found in path(s):

\* /antlr4-4-3-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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 */

/** How to generate rules derived from left-recursive rules.
 * These rely on recRuleAltPredicate(),
 * recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
 * templates in main language.stg
 */
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
 userRetvals, leftRecursiveRuleRefLabels) ::=
<<
```

```

<ruleName><if(userRetvals)>
returns [<userRetvals>]<endif>
: ({ } <primaryAlts:{alt | <alt.altText> }; separator="\n | ">
)
(
 <opAlts; separator="\n | ">
)*
;
>>

```

```

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?<<precOption>=<opPrec>\> <alt.altText>
>>

```

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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 */

```

```

tree grammar SourceGenTriggers;
options {
 language = Java;
 tokenVocab = ANTLRParser;
 ASTLabelType = GrammarAST;
}

```

```

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import
 java.util.HashMap;
}

```

```

@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
 this(input);
 this.controller = controller;
}
}

```

```

dummy : block[null, null] ;

```

```

block[GrammarAST label, GrammarAST ebfnRoot] returns [List<? extends SrcOp> omos]
: ^(blk=BLOCK (^ (OPTIONS .+))?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
(alternative {alts.add($alternative.altCodeBlock);})+
)
{
if (alts.size()==1 && ebfnRoot==null) return alts;
if (ebfnRoot==null) {
 $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
 Choice choice = controller.getEBNFBlock($ebfnRoot, alts);
 hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
 $omos = DefaultOutputModelFactory.list(choice);
}
}

```

```

;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 boolean outerMost = inContext("RULE BLOCK");
}
@after {
 controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if (outerMost) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
 List<SrcOp> elems = new ArrayList<SrcOp>();
 // TODO: shouldn't we pass $start to controller.alternative()?
 $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
 $altCodeBlock.ops = $ops = elems;
 controller.setCurrentBlock($altCodeBlock);
}
^(ALT elementOptions? (element {if ($element.omos!=null) elems.addAll($element.omos);})+)

| ^(ALT elementOptions? EPSILON)
 { $altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost); }
;

element returns [List<? extends SrcOp> omos]
: labeledElement { $omos = $labeledElement.omos; }
| atom[null,false] { $omos = $atom.omos; }
| subrule { $omos = $subrule.omos; }
| ACTION { $omos = controller.action((ActionAST)$ACTION); }
| SEMPRED { $omos = controller.sempred((ActionAST)$SEMPRED); }
| ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION); }
| ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED); }
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false]) { $omos = $atom.omos; }
| ^(PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos; }
| ^(ASSIGN ID block[$ID,null]) { $omos = $block.omos; }
| ^(PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos; }
;

```



```

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
 $omos = $block.omos;
}
| (^(op=CLOSURE
b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
 List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
 SrcOp blk = $b.omos.get(0);
 CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
 alt.addOp(blk);
 alts.add(alt);
 SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
 hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
 $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] {$omos = $block.omos;}
;

```

```

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
;

```

```

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

```

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...

// TODO: same for NOT

```

atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT a=atom[$label,
true]) {$omos = $a.omos;}
| range[label] {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .) {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

```

```

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

```

```

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

```

```

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF,
$label, $ARG_ACTION);}
| ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;

```

```

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```

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// File : A3Lexer.g

// Author : Jim Idle (jimi@temporal-wave.com)

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// Version : First implemented as part of ANTLR 3.2 this is the self

// hosting ANTLR 3 Lexer.

//

// Description

// -----

// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other

// grammars are derived from

this grammar via source code control integration (perforce)

// or by the gdiff tool.

//

// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following

```

// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
// for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
// that the lexer tries to defer error reporting to the parser, and the parser
// tries to defer error reporting to a semantic phase consisting of a single
// walk of the AST. The reason for this is that the error messages produced
// from later phases of the parse will generally have better context and so
// be more useful to the end user. Consider the message: "Syntax error at 'options'"
// vs: "You cannot specify two options{} sections
// in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
// and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 * A3Parser.g
 * A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
 *
 * Terence Parr
 * University of San Francisco
 * 2005
 * Jim Idle (this v3 grammar)
 * Temporal Wave LLC
 * 2009
 */
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care
// about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.

```

```
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this
// source and also the generated source
//
@lexer::header {
/*
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Copyright (c) 2005-2009 Terence Parr
All rights reserved.
```

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```
*/
```

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}
```

```
@members {
```

```
 public CommonTokenStream tokens; // track stream we push to; need for context info
 public boolean isLexerRule = false;
```

```
 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
 /** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
 */
```

```
 public Token getRuleOrSubruleStartToken()
```

```
 {
```

```
 if (tokens==null) return null;
```

```
 int i = tokens.index();
```

```
 int n = tokens.size();
```

```
 if (i>=n) i = n-1; // seems index == n as we lex
```

```
 while (i>=0 && i<n) {
```

```
 int ttype = tokens.get(i).getType();
```

```
 if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
```

```
 return tokens.get(i);
```

```
 }
```

```
 i--;
```

```
 }
```

```
 return null;
```

```
 }
```

```
}
```

```
// -----
```

```
// Comments
```

```
//
```

```
// ANTLR comments can be multi or single line and we don't care
```

```
// which particularly. However we also accept Javadoc style comments
```

```
// of the form: /** ... */ and we do take care to distinguish those
```

```

// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment,
 then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset = getCharPositionInLine();
}
: // Eat the first character only, then see if we have a comment
 // or something silly.
 //
 '/' // Comment introducer

(
 // Single line comment, possibly with embedded src/line directives
 // in a similar style to the C pre-processor, allowing generated
 // code to refer the programmer back to the original source code
 // in case of error.
 //
 '/'
 (
 (' $ANTLR')=> ' $ANTLR' SRC
 | ~(NLCHARS)*
)

| // Multi-line comment, which may be a documentation comment
 // if it starts /** (note that we protect against accidentally
 // recognizing a comment /**/ as a documentation comment
 //
 /**

(
 { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
 | { true }?=> // Required to cover all alts with predicates
)

 // Should we support embedded multiline comments here?
 //
 (

```



```

 // Pick out end of multiline comment and exit the loop
 // if we find it.
 //
 { !(input.LA(1) == '*' && input.LA(2) == '/') }?

 // Anything else other than the non-greedy match of
 // the comment close sequence
 //
 .
)*
(
 // Look for the comment terminator, but if it is accidentally
 // unterminated, then we will hit EOF, which will trigger the
 // epsilon alt and hence we can issue an error message relative
 // to the start of the unterminated multi-line comment

 //
 /*'

 | // Unterminated comment!
 //
 {
 // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
 }
)

| // There was nothing that made sense following the opening '/' and so
// we issue an error regarding the malformed comment
//
{
 // TODO: Insert error message relative to comment start
 //
}
)
{
 // Unless we had a documentation comment, then we do not wish to
 // pass the comments in to the parser. If you are writing a formatter
 // then you will want to preserve the comments off channel, but could
 // just skip and save token space if not.
 //
 if ($type != DOC_COMMENT) {

 $channel=2; // Comments are on channel 2
 }
}
;

```

ARG\_OR\_CHARSET

options

```
{k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
 $type=ARG_ACTION;
 // Set the token text to our gathered string minus outer []
 String t = $text;
 t = t.substring(1,t.length()-1);
 setText(t);
}
;
```

fragment

LEXER\_CHAR\_SET

```
: '['
('\\' ~('\r'|\n')
| ~('\r'|\n'|\\'|']')
)*
']'
;
```

// -----

// Argument specs

//

// Certain argument lists, such as those specifying call parameters

// to a rule invocation, or input parameters to a rule specification

// are contained within square brackets. In the lexer we consume them

// all at once and sort them out later in the grammar analysis.

//

fragment

ARG\_ACTION

```
: '['
(
 ARG_ACTION

 | ('')=>ACTION_STRING_LITERAL

 | ('')=>ACTION_CHAR_LITERAL

 | ~('[|']')
)*
']'
;
```

// -----

```

// Actions
//
// Other than making sure to distinguish between
// { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
('?' { $type = SEMPRED; }
((WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
t.setLine(state.tokenStartLine);
t.setText(state.text);
t.setCharPositionInLine(state.tokenStartCharPositionInLine);
grammarError(ErrorType.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces.
//
// Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
// fragment
NESTED_ACTION
@init {

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();

```

```

int offset = getCharPositionInLine();
}

: // Action and other blocks start with opening {
//
'{
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched.
This won't be foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

// An embedded {} block
//
NESTED_ACTION

| // What appears to be a literal
//
ACTION_CHAR_LITERAL

| // We have assumed that the target language has C/Java
// type comments.
//
COMMENT

| // What appears to be a literal
//
ACTION_STRING_LITERAL

| // What appears to be an escape sequence
//
ACTION_ESC

| // Some other single character that is not
// handled above
//
~(\\|'|"|\|/|'{'|'})

)*

```

```

(
 // Correctly balanced closing brace
 //
 '}'

| // Looks like have an imbalanced {} block, report
 // with respect to the opening brace.
 //
 {
 // TODO: Report
 imbalanced {}
 System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
 }
)
;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS and TOKENS must also consume the opening brace that captures
// their option block, as this is teh easiest way to parse it separate
// to an ACTION block, despite it usingthe same {} delimiters.
//
OPTIONS : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;

IMPORT : 'import' ;
FRAGMENT : 'fragment' ;
LEXER : 'lexer' ;
PARSER : 'parser' ;
GRAMMAR : 'grammar' ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED : 'protected' ;
PUBLIC : 'public' ;
 ;
PRIVATE : 'private' ;
RETURNS : 'returns' ;
LOCALS : 'locals' ;
THROWS : 'throws' ;
CATCH : 'catch' ;
FINALLY : 'finally' ;
MODE : 'mode' ;

// -----

```

```

// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON : ':'
{
 // scan backwards, looking for a RULE_REF or TOKEN_REF.
 // which would indicate the start of a rule definition.
 // If we see a LPAREN, then it's the start of the subrule.
 // this.tokens is the token string we are pushing into, so
 // just loop backwards looking for a rule definition. Then
 // we set isLexerRule.
 Token t = getRuleOrSubruleStartToken();
 if (t!=null) {
 if (t.getType()==RULE_REF) isLexerRule = false;

 else if (t.getType()==TOKEN_REF) isLexerRule = true;
 // else must be subrule; don't alter context
 }
}

;

COLONCOLON : '::' ;
COMMA : ',' ;
SEMI : ';' ;
LPAREN : '(' ;
RPAREN : ')' ;
R_ARROW : '->' ;
LT : '<' ;
GT : '>' ;
ASSIGN : '=' ;
QUESTION : '?' ;
SYNPRED : '=>'
{
 Token t = new CommonToken(input, state.type, state.channel,
 state.tokenStartCharIndex, getCharIndex()-1);
 t.setLine(state.tokenStartLine);
 t.setText(state.text);
 t.setCharPositionInLine(state.tokenStartCharPositionInLine);
 grammarError(ErrorType.V3_SYNPRED, t);
 $channel=HIDDEN;
}

;

STAR : '*'
;
PLUS : '+' ;
PLUS_ASSIGN : '+=' ;
OR : '|' ;
DOLLAR : '$' ;

```

```

DOT : '.' ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE : '..' ;
AT : '@' ;
POUND : '#' ;
NOT : '~' ;
RBRACE : '}' ;

```

/\*\* Allow unicode rule/token names \*/

```

ID : a=NameStartChar NameChar*
{
 if (Grammar.isTokenName($a.text)) $type = TOKEN_REF;
 else $type = RULE_REF;
}
;

```

fragment

```

NameChar : NameStartChar
| '0'..'9'
| '_'
| '\u00B7'
| '\u0300'..\u036F'
| '\u203F'..\u2040'
;

```

fragment

```

NameStartChar
: 'A'..'Z' | 'a'..'z'
| '\u00C0'..\u00D6'
| '\u00D8'..\u00F6'
| '\u00F8'..\u02FF'
| '\u0370'..\u037D'
| '\u037F'..\u1FFF'
| '\u200C'..\u200D'
| '\u2070'..\u218F'
| '\u2C00'..\u2FEF'
| '\u3001'..\uD7FF'
| '\uF900'..\uFDCF'
| '\uFDF0'..\uFEFE'
| '\uFF00'..\uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

// -----

// Literals embedded in actions

//

// Note that we have made the assumption that the language used within

// actions uses the fairly standard " and ' delimiters for literals and

// that within these literals, characters are escaped using the \ character.

// There are some languages which do not conform to this in all cases, such

```

// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently
// match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\"\\)=>ACTION_ESC | ~\"")* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\"\\)=>ACTION_ESC | ~\"")* "\""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: "\\ .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
//
Source spec
//

```



```

// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
 {
 // TODO: Add target specific code to change the source file name and current line number
 //
 }
;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
: '\" ((ESC_SEQ | ~('\\'|\"'|\"r'|\"n'))) *
 (
 | // Unterminated string literal
 {
 Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex,
getCharIndex()-1);
 t.setLine(state.tokenStartLine);
 t.setText(state.text);
 t.setCharPositionInLine(state.tokenStartCharPositionInLine);
 grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
 }
)
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: '\\
 (
 // The standard escaped character set such as tab, newline,

```

```

 // etc.
 //
 'b'|'t'|'n'|'f'|'r'|'\''|'\"'|'\\'

| // A Java style Unicode escape sequence
//
UNICODE_ESC

| // An illegal escape sequence
//
{
 Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
 t.setText(t.getText());
 t.setLine(input.getLine());
 t.setCharPositionInLine(input.getCharPositionInLine()-1);
 grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
}
)
;

fragment
UNICODE_ESC

@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}

: 'u' // Leadin for unicode escape sequence

 // We now require 4 hex digits. Note though
 // that we accept any number of characters
 // and issue an error if we do not get 4. We cannot
 // use an infinite count such as + because this
 // might consume too many, so we lay out the lexical
 // options and issue an error at the invalid paths.
 //
 (
 (
 HEX_DIGIT { hCount++; }
 (
 HEX_DIGIT { hCount++; }
 (
 HEX_DIGIT { hCount++; }
 (
 // Four valid hex digits, we are good

```

```

//
 HEX_DIGIT { hCount++; }

 | // Three valid digits
)

 | // Two valid digits
)

 | // One valid digit
)
)
 | // No valid hex digits at all
)

// Now check the digit count and issue an error if we need to
//
{
 if (hCount != 4) {
 Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
 t.setText(t.getText());
 t.setLine(input.getLine());
 t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
 grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
 }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
 ' '
 | '\t'

 | '\r'
 | '\n'
 | '\f'
)+
 {$channel=HIDDEN;}
;

```

```

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
: '\n' | '\r'
;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
: ' ' | '\t' | '\f'
;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
: ' ' | '\t' | '\f' | '\n' | '\r'
;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
: '\uFEFF' {skip();}
;

// -----
// Illegal Character
//
//
This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR

```

```

: .
{
 Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
 t.setLine(state.tokenStartLine);
 t.setText(state.text);
 t.setCharPositionInLine(state.tokenStartCharPositionInLine);
 String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
 grammarError(ErrorType.SYNTAX_ERROR, t, msg);
 state.syntaxErrors++;
 skip();
}
;

```

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/ANTLRLexer.g

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

/\*

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\*/

/\*

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the format that mimicks GCC output.

\*/

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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

/\*

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\*/

tree grammar BlockSetTransformer;

options {

language = Java;

```

tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
output = AST;
filter = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import
java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
 this(input, new RecognizerSharedState());
 this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))

```

```

;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}?
// top-level: rule block and > 1 alt
^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]))+)
-> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt
^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]))+)
-> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: (^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
&&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption

```



```

: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;

```

Found in path(s):

\* /antlr4-4-3-sources-jar/org/antlr/v4/parse/BlockSetTransformer.g

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```

*/
/*

```

This file contains the actual layout of the messages emitted by ANTLR.

This file contains the default format ANTLR uses.

```

*/

```

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<id> <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

```
wantsSingleLineMessage() ::= "false"
```

Found in path(s):

```
* /antlr4-4-3-sources-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
```

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```

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```
*/
```

```
/*
```

This file contains the actual layout of the messages emitted by ANTLR.

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

```
*/
```

```
location(file, line, column) ::= "<file>(<line>,<column>)"
```

```
message(id, text) ::= "error <id> : <text>"
```

```
report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"
```

```
wantsSingleLineMessage() ::= "true"
```

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

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\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/GrammarToken.java

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\*/

/\*\* Find left-recursive rules \*/

tree grammar LeftRecursiveRuleWalker;

options {

tokenVocab=ANTLRParser;

ASTLabelType=GrammarAST;

}

```

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int
numAlts; // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
: ^(r=RULE id=RULE_REF {ruleName=$id.getText();}
DOC_COMMENT? ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
(^(RETURNS a=ARG_ACTION {setReturnValues($a;)}))?)
// (^(THROWS .+)? don't allow
(^(LOCALS ARG_ACTION))? // TODO: copy these to gen'd code
(^(OPTIONS .*)
| ^(AT ID ACTION) // TODO: copy
)*
ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler*

```

```

finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^(BLOCK
(
o=outerAlternative
{if ($o.isLeftRec) $isLeftRec = true;}
{currentOuterAltNumber++;}
)+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=> binary
 {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=> prefix
 {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=> suffix
 {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^(ALT elementOptions? recurse element+ recurse epsilonElement*)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^(ALT elementOptions?
 {!(CommonTree)input.LT(1)).getText().equals(ruleName)}? element)+

```

```

recurse epsilonElement*
)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^(ALT elementOptions? recurse element+)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS
elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

element
: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)

```



```
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;
```

```
epsilonElement
: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;
```

```
setElement
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

```
ebnf: block
| ^(OPTIONAL block)
| ^(CLOSURE block)
| ^(POSITIVE_CLOSURE block)
;
```

```
block
: ^(BLOCK ACTION? alternative+)
;
```

```
alternative
: ^(ALT elementOptions? element+)
;
```

```
atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID
element)
;
```

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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 */
```

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
```

```

<states; separator="\n">
<edges;
separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="ε"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
label="
 <!-- rest(transition) tests for decision states: these nodes have a non-empty set
of transitions after the first one. !>
 <if(rest(transitions))>
 {
 <!-- Label on the left side of the record node. !>
 <label>
 |
 <!-- Named ports in order on right side of record node, no display text. !>
 { <transitions:{t|\<p<i0>>}; separator="|"> }
 <else>
 <label>
 <endif>
 "
 <if(rest(transitions))>
 , shape=record, fixedsize=false
 <else>
 , shape=circle, fixedsize=true, width=.55
 <endif>
 , peripheries=1];
%>

```

```

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

```

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\* /antlr4-4-3-sources-jar/org/antlr/v4/tool/templates/dot/graphs.stg

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*/

```

```

tree grammar ATNBuilder;
options {
language = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
// filter = true;

```

```

}

// Include the copyright in this source and also the generated source
@header {
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
 ATNFactory factory;
 public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
 this(input);
 this.factory = factory;
 }
}

dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]

```

```

@init {
 List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
 int alt = 1;
 factory.setCurrentOuterAlt(alt);
}

: ^(BLOCK
 (^ (OPTIONS .*)?
 (a=alternative
 {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
)+
)
 {$p
= factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK (^ (OPTIONS .*)? (a=alternative {alts.add($a.p);}))+
 {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
 {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON) {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);}))+ {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);}+
 {
 $p = factory.alt(cmds);
 }
)
;

lexerCommand returns [ATNFactory.Handle
cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
 {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
 {$cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
: ID
| INT

```

;

element returns [ATNFactory.Handle p]

```
: labeledElement {$p = $labeledElement.p;}
| atom {$p = $atom.p;}
| subrule {$p = $subrule.p;}
| ACTION {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .) {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET {$p = factory.charSetLiteral($start);}
;
```

astOperand returns [ATNFactory.Handle p]

```
: atom {$p = $atom.p;}
| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;
```

labeledElement returns [ATNFactory.Handle p]

```
: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;
```

subrule

```
returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;
```

blockSet[boolean invert] returns [ATNFactory.Handle p]

```
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;
```

/\*\* Don't combine with atom otherwise it will build spurious ATN nodes \*/

setElement

```
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;
```

atom returns [ATNFactory.Handle p]

```

: range {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p =
$blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;

```

ruleref returns [ATNFactory.Handle p]

```

: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

```

range returns [ATNFactory.Handle p]

```

: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;

```

terminal returns [ATNFactory.Handle p]

```

: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;

```

elementOptions

```

: ^(ELEMENT_OPTIONS elementOption*)
;

```

elementOption

```

: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN
ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

```

Found in path(s):

\* /antlr4-4-3-sources-zip/antlr4-4-3-sources-jar/org/antlr/v4/parse/ATNBuilder.g



# 1.410 jackson-annotations 2.15.0

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## 1.411 javax-activation 1.1

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## 1.412 jersey-bundle 1.18.1

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## 1.413 slf4j-impl 1.7.36

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```

Found in path(s):

\* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/SecuritySupport12.java  
\* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/SecuritySupport.java

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\* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/filters/NamespaceBinder.java  
\* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/filters/Purifier.java

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```
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/filters/Identity.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/filters/DefaultFilter.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/filters/ElementRemover.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/parsers/SAXParser.java
*
* /nekohtml-1-9-14-sources-2-jar/sample/RemoveElements.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLScanner.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLElements.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLConfiguration.java
* /nekohtml-1-9-14-sources-2-jar/sample/Script.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLTagBalancingListener.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLTagBalancer.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLEntities.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/filters/Writer.java
* /nekohtml-1-9-14-sources-2-jar/sample/TestHTMLDOM.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLReporter.java
* /nekohtml-1-9-14-sources-2-jar/sample/TestHTMLDOMFragment.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/parsers/DOMParser.java
* /nekohtml-1-9-14-sources-2-jar/sample/HTMLSAXParser.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLEventInfo.java
```

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```

* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/xercesbridge/XercesBridge.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/xercesbridge/XercesBridge_2_3.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/xercesbridge/XercesBridge_2_0.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/xercesbridge/XercesBridge_2_2.java
*
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/LostText.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/xercesbridge/XercesBridge_2_1.java
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* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/parsers/DOMFragmentParser.java
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Found in path(s):

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* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/Version.java
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```
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLAugmentations.java
* /nekohtml-1-9-14-sources-2-jar/org/cyberneko/html/HTMLComponent.java
```

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`show w'. This is free software, and you are welcome to redistribute
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signature of Ty Coon, 1 April 1989
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# 1.421 jsr305 1.3.9

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* /reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Processor.java
*
* /reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Subscription.java
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\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/Literal.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/FloatingPointLiteral.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/OrOperator.java  
\*  
/commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/LessThanOrEqualsOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/ArithmeticOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/LessThanOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/MinusOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/PrimitiveObjects.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/Expression.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/MultiplyOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/BeanInfoManager.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/ImplicitObjects.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/EqualsOperator.java  
\*  
/commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/IntegerDivideOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/NullLiteral.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/PlusOperator.java  
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\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/BooleanLiteral.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/BinaryOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/GreaterThanOperator.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/BeanInfoIndexedProperty.java  
\* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/ComplexValue.java  
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```

/commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/UnaryOperatorExpression.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/Logger.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/NamedValue.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/NotEqualsOperator.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/BeanInfoProperty.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/Coercions.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/AndOperator.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/VariableResolverImpl.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/StringLiteral.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/DivideOperator.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/ExpressionEvaluatorImpl.java
*
/commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/PropertySuffix.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/EqualityOperator.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/GreaterThanOrEqualsOperator.java
* /commons-el-1-0-src-jar-zip/commons-el-1-0-src-jar/org/apache/commons/el/NotOperator.java

```

# 1.425 log4net 2.0.12

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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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By Sean Eron Anderson

seander@cs.stanford.edu

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# 1.426 joda-time 1.6

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# 1.427 jsr311-api 1.1.1



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```
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/POST.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Path.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/MatrixParam.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/WebApplicationException.java
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* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Application.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/GET.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Cookie.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/Provider.java
*
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/QueryParam.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/UriBuilderException.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/FormParam.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Produces.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/CacheControl.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Variant.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/MediaType.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/SecurityContext.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Encoded.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/OPTIONS.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/UriInfo.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/PathSegment.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Context.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/CookieParam.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/EntityTag.java
*
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/HttpMethod.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/Consumes.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/HEAD.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/HttpHeaders.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/MultivaluedMap.java
* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/UriBuilder.java
```

\* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/DefaultValue.java  
\* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/PUT.java  
\* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/HeaderParam.java  
\* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/NewCookie.java  
\* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/PathParam.java  
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- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/RuntimeDelegate.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/ContextResolver.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/FactoryFinder.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ApplicationPath.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/MessageBodyWriter.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/StreamingOutput.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/core/Response.java
- \*
- /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/MessageBodyReader.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/Providers.java
- \* /jsr311-api-1-1-1-sources-6-jar/javax/ws/rs/ext/ExceptionMapper.java

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- \*/

Found in path(s):

- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/module/ServerAuthModule.java
- \*
- /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/AuthStatus.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/ServerAuthContext.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/AuthException.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/AuthConfigFactory.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/ServerAuthConfig.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/AuthConfig.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/callback/PrivateKeyCallback.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/RegistrationListener.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/ServerAuth.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/ClientAuthConfig.java
- \*
- /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/module/ClientAuthModule.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/callback/SecretKeyCallback.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/callback/CertStoreCallback.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/ClientAuth.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/callback/TrustStoreCallback.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/AuthConfigProvider.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/MessagePolicy.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/config/ClientAuthContext.java
- \* /tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/MessageInfo.java



\*

/tomcat-jaspic-api-9-0-98-sources-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java

# 1.430 freemarker 2.3.33

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# 1.431 commons-configuration 1.10

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# 1.432 javax-activation 1.2.0

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# 1.434 shindig-social-api 2.0.2

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\* /error-prone-annotations-2-11-0-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

## 1.437 expectj 2.0.7

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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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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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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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## 1.441 jtds 1.2.2

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# 1.442 system.speech 4.8.3761

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```
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* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/IterationTag.java
*
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/JspWriter.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/Tag.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/el/VariableResolver.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/PageContext.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/ValidationMessage.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagFileInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagVariableInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagLibraryValidator.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagAttributeInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagSupport.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/JspTag.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/SimpleTagSupport.java
*
```

```

/tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/el/FunctionMapper.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/HttpJspPage.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/el/Expression.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/el/ImplicitObjectELResolver.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/ErrorData.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/JspException.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/BodyTag.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TryCatchFinally.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/BodyContent.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagLibraryInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/JspPage.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/JspTagException.java
*
/tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/SkipPageException.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/DynamicAttributes.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagAdapter.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/BodyTagSupport.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/VariableInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/JspFactory.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/JspApplicationContext.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagData.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/SimpleTag.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/JspFragment.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/TagExtraInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/el/ELException.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/PageData.java
*
/tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/el/ExpressionEvaluator.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/el/ELParseException.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/tagext/FunctionInfo.java
* /tomcat-jsp-api-9-0-80-sources-jar/javax/servlet/jsp/JspEngineInfo.java
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# 1.447 xalan 2.7.3

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 \*  
 /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/ObjectiveCName.java  
 \* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/Property.java  
 \* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/LoopTranslation.java  
 \* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/OnDealloc.java  
 \* /j2objc-annotations-2-8-sources-2-jar/com/google/j2objc/annotations/RetainedLocalRef.java

# 1.449 abego-treelayout-core 1.0.1

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 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/Utf8StringBuffer.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/Scanner.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/thread/ThreadPool.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/GzipFilter.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/NoJspServlet.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/ConcatServlet.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/Attributes.java  
 \*  
 /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/JSON.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/JSONDateConvertor.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/log/Slf4jLog.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/WaitingContinuation.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/IntrospectionUtil.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/log/Logger.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/component/Container.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/CGI.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/JSONEnumConvertor.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/RolloverFileOutputStream.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/ContinuationSupport.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/JSONObjectConvertor.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/RestFilter.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/thread/Timeout.java  
 \*  
 /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/AjaxFilter.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/component/AbstractLifeCycle.java  
 \* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/AttributesMap.java

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* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/TypeUtil.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/DateCache.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/thread/QueuedThreadPool.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/StringMap.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/MultiPartFilter.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ByteArrayISO8859Writer.java
*
/jetty-util-6-1-25-sources-1-jar/org/mortbay/util/MultiPartWriter.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/ProxyServlet.java
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* /jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/UserAgentFilter.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/QuotedStringTokenizer.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/MultiPartOutputStream.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ByteArrayOutputStream2.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/Loader.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/SingletonList.java
*
/jetty-util-6-1-25-sources-1-jar/org/mortbay/servlet/WelcomeFilter.java
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/thread/BoundedThreadPool.java
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```
* /jetty-util-6-1-25-sources-1-jar/org/mortbay/util/ajax/JSONPojoConvertorFactory.java
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# 1.452 sanselan 0.97-incubator

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- javaee\_web\_services\_1\_3.xsd
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Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd

- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

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- javaee\_5.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd



- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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# 1.455 system.runtime 4.8.3761

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# 1.456 modules 0.3.2

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 */
package com.sun.syndication.feed.module.cc.types;
```

```

import com.sun.syndication.feed.impl.EqualsBean;
import com.sun.syndication.feed.impl.ToStringBean;

import java.io.Serializable;
import java.util.HashMap;
import java.util.Iterator;
import java.util.StringTokenizer;

/**
 * @version $Revision: 1.3 $
 * @author Robert
 * "kebernet" Cooper
 */
public class License implements Serializable {
 /**
 *
 */
 private static final long serialVersionUID = 1890706896523356764L;

 private static final String CC_START = "http://creativecommons.org/licenses/";
 private static final HashMap lookupLicense = new HashMap();
 public static final License NO_DERIVS = new License("http://creativecommons.org/licenses/nd/1.0/",new
Behaviour[0],new Behaviour[] {
Behaviour.DISTRIBUTION,Behaviour.REPRODUCTION
});
 public static final License NO_DERIVS_NONCOMMERCIAL = new
License("http://creativecommons.org/licenses/nd-nc/1.0/",new Behaviour[] {
Behaviour.NONCOMMERCIAL
},new Behaviour[] {Behaviour.DISTRIBUTION,Behaviour.REPRODUCTION});
 public static final License NONCOMMERCIAL = new
License("http://creativecommons.org/licenses/nc/1.0/",new Behaviour[] {
Behaviour.NONCOMMERCIAL
},new Behaviour[] {
Behaviour.DERIVATIVE,Behaviour.DISTRIBUTION,Behaviour.REPRODUCTION
});
 public static final License SHARE_ALIKE = new License("http://creativecommons.org/licenses/sa/1.0/",new
Behaviour[] {
Behaviour.COPYLEFT
},new Behaviour[] {
Behaviour.DERIVATIVE,Behaviour.DISTRIBUTION,Behaviour.REPRODUCTION
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 public static final License SHARE_ALIKE_NONCOMMERCIAL = new
License("http://creativecommons.org/licenses/nc-sa/1.0/",new Behaviour[] {
Behaviour.COPYLEFT,Behaviour.NONCOMMERCIAL
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 public static final License SHARE_ALIKE_ATTRIBUTION = new

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 Behaviour.COPYLEFT,Behaviour.ATTRIBUTION
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License("http://creativecommons.org/licenses/by-nc-sa/2.5/",new Behaviour[]
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 Behaviour.COPYLEFT,Behaviour.ATTRIBUTION,Behaviour.NONCOMMERCIAL
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 Behaviour.ATTRIBUTION,Behaviour.NONCOMMERCIAL
 },new Behaviour[] {Behaviour.DISTRIBUTION,Behaviour.REPRODUCTION});
 public static final License ATTRIBUTION_NO_DERIVS = new
License("http://creativecommons.org/licenses/by-nd/2.5/",new Behaviour[] {
 Behaviour.ATTRIBUTION
 },new Behaviour[] {Behaviour.DISTRIBUTION,Behaviour.REPRODUCTION});
 public static
 final License ATTRIBUTION = new License("http://creativecommons.org/licenses/by/2.5/",new Behaviour[] {
 Behaviour.ATTRIBUTION
 },new Behaviour[] {
 Behaviour.DERIVATIVE,Behaviour.DISTRIBUTION,Behaviour.REPRODUCTION
 });
 private String uri;
 private Behaviour[] permits;
 private Behaviour[] requires;

 /**
 * Creates a new instance of License
 */
 public License(String uri,Behaviour[] requires,Behaviour[] permits) {
 this.requires = requires;
 this.permits = permits;
 this.uri = uri;
 License.lookupLicense.put(uri,this);

 if(this.uri.endsWith("/")) {
 //System.out.println(uri.substring(0,this.uri.lastIndexOf("/")));
 License.lookupLicense.put(uri.substring(0,this.uri.lastIndexOf("/")),this);
 }
}

```

```

}
}

 public static License findByValue(String uri) {
License found = (License)License.lookupLicense.get(uri);

//No I am going to try an guess about unknown licenses
// This is try and match known CC licenses of
other versions or various URLs to
// current licenses, then make a new one with the same permissions.
if(found == null && uri.startsWith("http://") && uri.toLowerCase().indexOf("creativecommons.org") != -1) {
 Iterator it = License.lookupLicense.keySet().iterator();
 while(it.hasNext()&&(found == null)) {
try{
 String key = (String)it.next();
 if(key.startsWith(CC_START)){
String licensePath = key.substring(CC_START.length(), key.length());
StringTokenizer tok = new StringTokenizer(licensePath, "/");
String license = tok.nextToken();
String version = tok.nextToken();
if(uri.toLowerCase().indexOf("creativecommons.org/licenses/"+license) != -1){
 License current = (License) lookupLicense.get(key);
 found = new License(uri, current.getRequires(), current.getPermits());
}
}
} catch(Exception e){
 e.printStackTrace();
}
}
}

//OK, we got here. If we haven't found a match, return a new
License with unknown permissions.
if(found == null){
 found = new License(uri, null, null);
}
return found;
}

 public Behaviour[] getPermits() {
return this.permits;
}

 public Behaviour[] getRequires() {
return this.requires;
}

 public String toString() {

```

```

ToStringBean tsb = new ToStringBean(License.class, this);
return tsb.toString();
}

public String getValue() {
 return this.uri;
}

public boolean equals(Object obj) {
 EqualsBean eBean = new EqualsBean(License.class, this);
 return eBean.beanEquals(obj);
}

public int hashCode() {
 EqualsBean equals = new EqualsBean(License.class, this);
 return equals.beanHashCode();
}

 public static class Behaviour implements Serializable {
/**
 *
 */
private static final long serialVersionUID = 4484932480954592749L;

private static final HashMap lookup = new HashMap();
public static final Behaviour REPRODUCTION = new Behaviour("http://web.resource.org/cc/Reproduction");
public
static final Behaviour DISTRIBUTION = new Behaviour("http://web.resource.org/cc/Distribution");
public static final Behaviour DERIVATIVE = new Behaviour("http://web.resource.org/cc/DerivativeWorks");
public static final Behaviour NOTICE = new Behaviour("http://web.resource.org/cc/Notice");
public static final Behaviour ATTRIBUTION = new Behaviour("http://web.resource.org/cc/Attribution");
public static final Behaviour COPYLEFT = new Behaviour("http://web.resource.org/cc/Copyleft");
public static final Behaviour NONCOMMERCIAL = new Behaviour("http://web.resource.org/cc/Noncommercial");
private String uri;

private Behaviour(String uri) {
 this.uri = uri;
 Behaviour.lookup.put(uri, this);
}

public static Behaviour findByValue(String uri) {
 return (Behaviour) Behaviour.lookup.get(uri);
}

public String toString() {
 return this.uri;
}
}

```

}

# 1.457 openjdk 1.8.0u432

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<https://github.com/JamesNK/Newtonsoft.Json>

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JSON Parsing Test Suite

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<https://github.com/nst/JSONTestSuite>

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#### MSBuild Structured Logging

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<https://github.com/KirillOsenkov/MSBuildStructuredLog>

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#### ICSharpCode.Decompiler

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<https://github.com/icsharpcode/ILSpy>

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# 1.460 tomcat-util-scan 9.0.98

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## 1.461 streambuffer 1.5

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\*

/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java

\* /validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java

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- \* /validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolationException.java
- \*
- /validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidatorFactory.java
- \* /validation-api-1-1-0-final-sources-jar/javax/validation/ValidatorFactory.java
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\* /validation-api-1-1-0-final-sources-jar/javax/validation/GroupDefinitionException.java

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/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDeclarationException.java

\* /validation-api-1-1-0-final-sources-jar/javax/validation/Validation.java

\* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java

\* /validation-api-1-1-0-final-sources-jar/javax/validation/TraversableResolver.java

\* /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Future.java

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\*  
/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintValidator.java  
\* /validation-api-1-1-0-final-sources-jar/javax/validation/ValidationProviderResolver.java  
\* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/Scope.java  
\* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/PropertyDescriptor.java  
\* /validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ElementDescriptor.java  
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\* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java  
\* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java  
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/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java  
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\* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java  
\* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java  
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Behdad Esfahbod

David Corbett

David Turner

Ebrahim Byagowi

Garret Rieger

Jonathan Kew

Khaled Hosny

Lars Knoll

Martin Hosken

Owen Taylor

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Device drivers	src/mesa/drivers/*	MIT, generally
Gallium code	src/gallium/	MIT
Ext headers	GL/gltext.h	Khronos
	GL/glxt.h	Khronos
	GL/wglxt.h	Khronos
	KHR/khrplatform.h	Khronos

include/GL/gl.h :

Mesa 3-D
graphics library

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```
include/GL/glex.h
include/GL/glxext.h
include/GL/wglxext.h :
```

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```
include/KHR/khrplatform.h :
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Main Author

Marti Maria

Contributors

Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
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Auke Nauta
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Lorenzo Ridolfi
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== Authors ==

Gershon Elber <gershon[AT]cs.technion.sc.il>
original giflib code

Toshio Kuratomi <toshio[AT]tiki-lounge.com>
uncompressed gif writing code
former maintainer

Eric Raymond <esr[AT]snark.thyrsus.com>
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